MICRO Hi-Fi COMPONENT SYSTEM

# RXD-M35
# LS-M35/F30
# SERVICE MANUAL
## (HM-335/HM-F30)

KENWOOD

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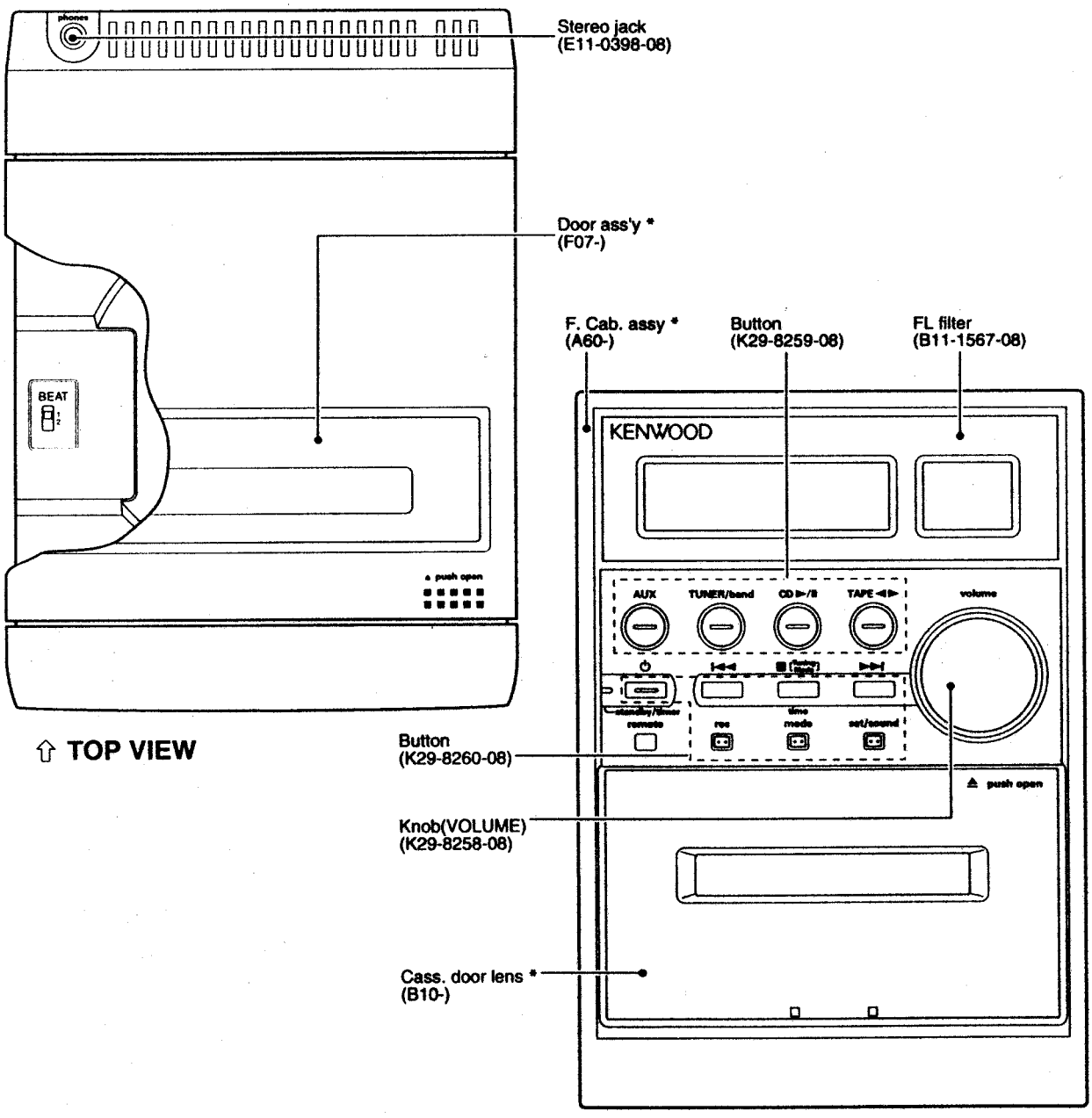


⇧ TOP VIEW

* Refer to parts list on page 26 .

In compliance with Federal Regulations, following are reproduction of labels on, or inside the product relating to laser product safety.

KENWOOD Corp. certifies this equipment conforms to DHHS Regulations No.21 CFR 1040. 10, Chapter 1, subchapter J.

**DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.**

**Caution :** No connection of ground line if disassemble the unit. Please connect the ground line on rear panel, PCBs, Chassis and some others.

# CONTENTS / ACCESSORIES / CAUTIONS

## Contents


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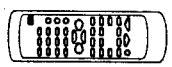
## Accessories

AM loop antenna (1) (T90-0846-08)

FM indoor antenna (1) (T90-0861-08)

Remote control unit (1)
(A70-1568-05): E,T,H type
(A70-1569-05): K,X type



Batteries(R6/AA) (2)

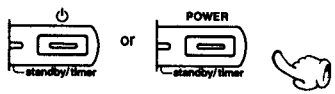
## Cautions

### *Operation to reset*

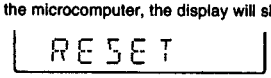
The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

Unplug the power cord from the power outlet, then while holding the POWER or ⏻ key depressed, plug the power cord again.



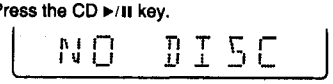

After resetting the microcomputer, the display will show as follow:




### *Note related to transportation and movement*

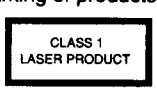
Before transporting or moving this unit, carry out the following operations.

❶ Remove the CD from the unit.
❷ Press the CD ▶/II key.




❸ Wait for some time and verify that the display appears as above.
❹ Wait a few seconds and turn the unit OFF.

### The marking of products using lasers (For countries other than U.S.A., U.S.-Military and Canada)




The marking of this product has been classified as Class 1. It means that there is no danger of hazardous radiation outside the product.

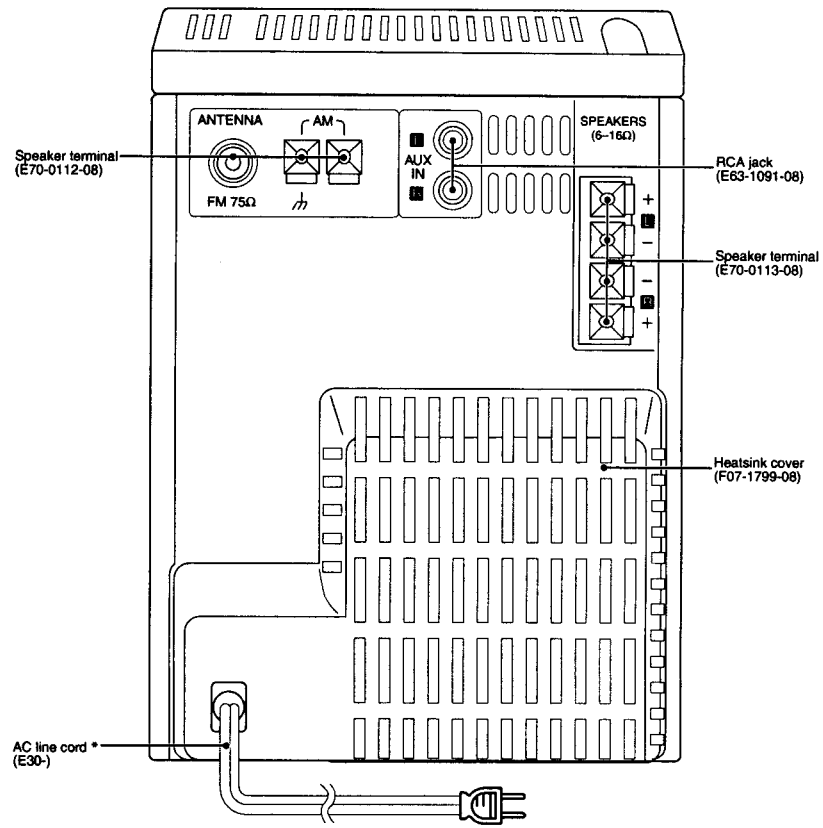
Location: Back panel

Inside this laser product, a laser diode classified as Class 3A laser radiation is contained as alerted by the internal caution label shown above. Do not stare into beam or view directly with optical instruments.





# EXTERNAL VIEW




*** Refer to parts list on page26.**

## SYSTEM CONFIGURATIONS

| SYSTEM | RECEIVER | SPEAKERS | COLOR | FOR |
|---|---|---|---|---|
| HM-335-S | RXD-M35-S | LS-M35-S | SILVER | USA & AUSTRALIA |
| HM-335E-S | RXD-M35E-S | LS-M35-S | SILVER | |
| HM-F30-S | RXD-M35-S | LS-F30 | SILVER | FRENCH |
| HM-335IT-S | RXD-M35-S | LS-F30 | SILVER | ITALY |
| HM-335-N | RXD-M35-N | LS-M35-N | GOLD | |
| HM-335E-N | RXD-M35E-N | LS-M35-N | GOLD | |

# CIRCUIT DESCRIPTION

## 1. Initializing

### 1-1 Initialization Method

- While pressing the [POWER] key, turn the AC on.

### 1-2 Initialization Operation

- During the initial operation, the display shows "RESET" and after that it will be returned to standby condition.
- If any mechanisms error occurred, the error indication is displayed as "ERR" in the display.

### 1-3 Mechanism Initializations

①CD Mechanism

- If a mechanism error occurred, the error indication is displayed as "C ERR" in the display.

②Deck Mechanism

- If a mechanism error occurred, the error indication is displayed as "X ERR" in the display.

## 2. Tuner Types

| Set | Destination | Band | Receiving Frequency Range | Channel Space | IF | RF |
|---|---|---|---|---|---|---|
| K,P | K1 | FM | 87.5MHz~108.0MHz | 100kHz | +10.7MHz | 25kHz |
| | | AM | 530kHz~1700kHz | 10kHz | +450kHz | 10kHz |
| E,T,H, E2 | E3 RDS | FM | 87.5MHz~108.0MHz | 50kHz | +10.7MHz | 25kHz |
| | | AM | 531kHz~1602kHz | 9kHz | +450kHz | 9kHz |
| M,X, V | E1 | FM | 87.5MHz~108.0MHz | 50kHz | +10.7MHz | 25kHz |
| | | AM | 531kHz~1602kHz | 9kHz | +450kHz | 9kHz |
| M,V | K2 | FM | 87.5MHz~108.0MHz | 100kHz | +10.7MHz | 25kHz |
| | | AM | 530kHz~1610kHz | 10kHz | +450kHz | 10kHz |

| Type | E,E2,T,H | K,P | M,V | X |
|---|---|---|---|---|
| Voltage (IC401, Pin3) | 4.2V~5.0V | 2.6V~4.1V | 1.4V~2.5V | 0.7V~1.3V |

## 3. Tuner Preset Frequency

| | Frequency | | | |
|---|---|---|---|---|
| P.CH | K1(K,P Type) | E3(E,T,H,E2 Type) | E1(M,X,V Type) | K2(M,V Type) |
| 1 | FM 98.30MHz | FM 98.30MHz | FM 98.30MHz | FM 98.30MHz |
| 2 | FM 108.0MHz | FM 108.0MHz | FM 108.0MHz | FM 108.0MHz |
| 3 | FM 89.10MHz | FM 89.10MHz | FM 89.10MHz | FM 89.10MHz |
| 4 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 5 | FM 90.00MHz | FM 90.00MHz | FM 90.00MHz | FM 90.00MHz |
| 6 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 7 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 8 | AM 1610kHz | AM 1503kHz | AM 1503kHz | FM 87.50MHz |
| 9 | AM 1700kHz | AM 1584kHz | AM 1584kHz | AM 1610kHz |
| 10 | AM 1000kHz | AM 999kHz | AM 999kHz | AM 1000kHz |
| 11 | AM 630kHz | AM 621kHz | AM 621kHz | AM 630kHz |
| 12 | AM 1440kHz | AM 1350kHz | AM 1350kHz | AM 1440kHz |
| 13 | FM 106.0MHz | FM 106.0MHz | FM 106.0MHz | FM 106.0MHz |
| 14 | AM 530kHz | AM 531kHz | AM 531kHz | AM 530kHz |
| 15 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 16 | FM 98.00MHz | FM 98.00MHz | FM 98.00MHz | FM 98.00MHz |
| 17 | FM 98.50MHz | FM 98.50MHz | FM 98.50MHz | FM 98.50MHz |
| 18 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 19 | AM 990kHz | AM 945kHz | AM 945kHz | AM 990kHz |
| 20 | FM 97.40MHz | FM 97.40MHz | FM 97.40MHz | FM 97.40MHz |
| 21 | AM 530kHz | AM 531kHz | AM 531kHz | AM 530kHz |
| 22 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 23 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 24 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 25 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 26 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 27 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 28 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 29 | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz | FM 87.50MHz |
| 30 | FM 106.0MHz | FM 106.0MHz | FM 106.0MHz | FM 106.0MHz |



RXD-M35

CIRCUIT DESCRIPTION

## 4. Test Mode

### 4-1 Setting method of the Test Mode

| Test Mode | Keys | Setting Method |
|---|---|---|
| CD MODE | CD PLAY key | Insert the AC cord to AC wall outlet while holding down the left key. |
| DECK MODE | TAPE PLAY | |

### 4-2 Cancel of the test mode

- Initialized and cancel the test mode if pulling out the power cord.
- Cancel the test mode only if the power key is turned off.

### 4-3 Contents of the Test Mode

- The muting during mode selection is not controlled in the test mode.
- During the test mode, it can be operated in a special manner that is different from an ordinary operation by using the keys on the main body, specifically as shown in the following tables

### 4-4 CD Test Mode

| Keys | Display | Operation |
|---|---|---|
| CD-PLAY/PAUSE (Cyclically changed the mode 05 and 03 by pressing the key.) | 05 ∗ ∗ : ∗ ∗ | • Tracking-servo on. |
| | (∗∗ : ∗∗)Time Display | • Pickup moves inward. |
| | 03 ∗ ∗ : ∗ ∗ | • Tracking-servo off. (for checking TE) |
| | (∗∗ : ∗∗)Time Display | • Pickup moves outward. |
| CD STOP | 00 : 00 | Stop the CD operation. |
| (Cyclically changed in the stop mode only.) | | Adjustment value/mean value |
| | 07 FG/FE | FG value /FE value |
| | 08 FB/FO | FBAL value /FO value |
| | 09 TG/TE | TG value /TE value |
| | 10 TB/TO | TBAL value /TO value |
| SKIP UP | Ex.0.1~0.2 | • Track number up |
| SKIP DOWN | Ex.0.2~0.1 | • Track number down. |

### 4-5 Deck Test Mode

| Keys | Display | Operation |
|---|---|---|
| TAPE REC | AUX | • 4 Seconds Recording<br>If the REC/ARM key is pressed, the system record for 4 seconds.<br>Then, it rewinds to the REC starting position and plays back automatically.<br>If the REC/ARM key is pressed, during the 4 seconds REC operation, the system records further for 4 seconds, then returns to the starting position of the first 4 seconds REC operation and plays back. |

∗Mechanism half switches indication

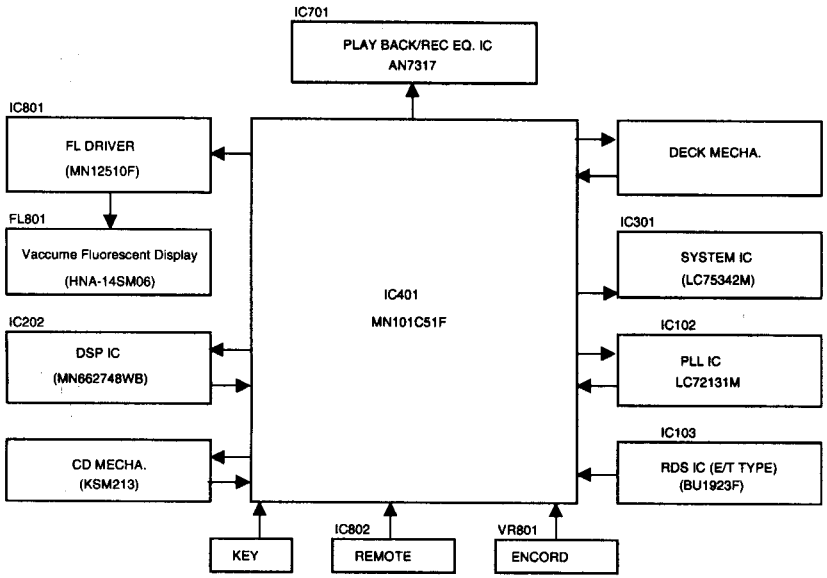
The mechanism half switches status are indicated "blank" or "E" in the display.

| 8th Dot(Display) | 1st figure | 2nd figure | 3rd figure | 4th figure |
|---|---|---|---|---|
| Mechanism Half Switch | FWD REC Inhibit Detection SW | RVS REC Inhibit Detection SW | Cassette Half Detection SW | Tape Play Detection SW |
| ON | Blank | Blank | Blank | Blank |
| OFF | E | E | E | E |

# CIRCUIT DESCRIPTION

## 5. Microcomputer : MN101C51F (IC401)

### 5-1 Microcomputer Periphery Block Diagram




Key Matrix VREF =5.0V

| Voltage Range | 0 | 0.89 | 1.55 | 2.00 | 2.61 | 3.02 | 3.42 | 5.00 |
|---|---|---|---|---|---|---|---|---|
| Key 1 (Pin 5) | ON/ STANDBY | AUX | TUNER | SKIP DOWN | STOP | CD PLAY | SKIP UP | (off) |
| Key 2 (Pin 6) | REC | | | | TAPE PLAY | MODE | SET | (off) |

### 5-2 Pin Description of Microcomputer : MN101C51F (IC401)

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | VREF - | - | Connected to power supply(+5.0V). |
| 2 | END SW | I | Reel sensor input for cassette deck. |
| 3 | TN TYPE | I | Discrimination of tuner destination. |
| 4 | S LEVEL | I | RDS signal level input(E/T type only). |
| 5 | KEY1 | I | A/D key (key1) input port. |
| 6 | KEY2 | I | A/D key (key2) input port. |
| 7 | A LEVEL | - | Unused. |
| 8 | TH | - | Unused. |
| 9 | CD PROTECTION | I | Detection port for CD protection. |
| 10 | VREF + | I | A/D reference voltage(+5V). |
| 11 | VCC | I | Power supply(+5.0V). |
| 12 | OSC2 | O | Main clock oscillator(8.388MHz). |
| 13 | OSC1 | I | Main clock oscillator(8.388MHz). |
| 14 | VSS | I | GND. |
| 15 | X1 | I | Timer clock input(32.768kHz). |







| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 16 | X0 | O | Timer clock output(32.768kHz). |
| 17 | MMOD | - | Connected to ground. |
| 18 | S DI | I | Data input from FL driver IC. |
| 19 | S.DO | O | Data output to FL driver IC. |
| 20 | S CK | O | Clock output to FL driver IC. |
| 21 | MLD | O | CD DSP command load signal output. |
| 22 | SUBQ | I | CD sub code input. |
| 23 | SQCK | O | Clock output for CD sub code. |
| 24 | CL SW | I | CD close detection switch input. |
| 25 | RESET | I | Reset signal input for microprocessor. |
| 26 | CE | I | Power failure input port. |
| 27 | OP SW | I | CD open detection switch input. |
| 28 | CD POWER | O | CD DSP power on/off control. |
| 29 | XRST | O | CD DSP reset output. |
| 30 | SLT SW | I | CD start limit switch input. |
| 31 | REM. CONTROL | I | Remote control signal input. |
| 32 | NO USE | - | Unused. |
| 33 | RDS CLK | I | RDS clock input. (E/T version only) |
| 34 | RESET2 | - | Unused. |
| 35 | CD BLKCK | I | Sub code synchronous signal input. |
| 36 | MDATA | - | Unused. |
| 37 | STAT | I | CD DSP status signal input. |
| 38 | MCLK | O | CD DSP command clock signal output. |
| 39 | CLOSE | - | Unused. |
| 40 | OPEN | - | Unused. |
| 41 | PH IN | I | Unused. |
| 42 | FLASH UC1 | - | Unused. |
| 43 | FLASH UC2 | - | Unused. |
| 44 | V CE | O | Chip enable output to electronic volume system IC. |
| 45 | V CLK | O | Clock output to electronic volume system IC. |
| 46 | V DATA | O | Serial data output to electronic volume system IC. |
| 47 | PWR RELAY | O | Power relay control output. H = ON L = OFF |
| 48,49 | NO USE | - | Unused. |
| 50 | FLASH WRITE | - | Unused. |
| 51 | NO USE | - | Unused. |
| 52 | PLL CLK | O | PLL IC clock output. |
| 53 | PLL DO/ST | I | PLL IC data input. |
| 54 | PLL DATA | O | Data output to PLL IC. |
| 55 | PLL CE | O | PLL IC chip enable. |
| 56 | SD | I | SD detector input. H = NO TUNED L = TUNED |
| 57 | TU MUTE | O | Tuner mute control. L : MUTE ON |
| 58 | PACK SW | I | Deck pack switch input. H = OFF L = ON |
| 59 | F REC SW | I | Deck forward rec switch input. H = OFF L = ON |
| 60 | R REC SW | I | Deck reverse rec switch input. H = OFF L = ON |
| 61 | PLAY SW | I | Deck play switch input. H =OFF L =ON |
| 62 | B. CANCEL | - | Unused. |
| 63 | REC/PB | O | Deck rec/play control. |
| 64 | BIAS | O | Deck bias control. |
| 65 | A/B | O | Unused. |
| 66 | LINE MUTE | O | Deck line mute control. |
| 67 | REC MUTE | O | Rec mute control. |
| 68 | CPM | O | Deck capstan motor control. |
| 69 | SOL | O | Deck solenoid control. |
| 70 | RDS DATA | - | Unused. |

## CIRCUIT DESCRIPTION

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 71 | PROTECT | O | Detection input port for protection circuit H = PROTECTION ON |
| 72 | A_MUTE | O | Audio muting control output. H = OFF L = ON |
| 73 | SP. RERAY | O | Unused. |
| 74 | EEP SDA | I/O | EEPROM data input and output. |
| 75 | EEP SCL | O | EEPROM clock output. |
| 76 | ENC A | I | Rotary encoder input (up). |
| 77 | ENC B | I | Rotary encoder input (down). |
| 78 | LED. RED | O | Control port of standby/timer LED(red). L = ON |
| 79 | LED. GRN | O | Control port of standby/timer LED (yellow). L = ON |
| 80 | NCS | O | CS signal output to LCD driver IC. |

### 6. Pin Description of IC's

#### 6-1 CD RF AMP : AN8399SA-E1 (IC201)

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | PD | I | APC Amp input. |
| 2 | LD | O | APC Amp output. |
| 3 | VCC | - | Power supply. |
| 4 | RF | I | RF amp inverting input. |
| 5 | RF OUT | O | RF addition amp output. |
| 6 | RF IN | I | AGC amp input. |
| 7 | LDRCTL | - | LD reference voltage control. |
| 8 | CAGC | - | AGC loop filter connection. |
| 9 | ARF | O | AGC output. |
| 10 | CEA | - | Capacitance connection for RF HPF-Amp. |
| 11 | RF ENV | O | 3T-ENV output. |
| 12 | CSBDO | - | Capacitance connection for RF dark side envelope detection. |
| 13 | BDO | O | BDO output. |
| 14 | COFTR | - | Capacitance connection for RF bright side envelope detection. |
| 15 | OFTR | O | OFTR output. |
| 16 | NRFDET | O | NRFDET output. |
| 17 | GND | - | GND |
| 18 | SLPSW | - | Sleep mode control (connected to ground). |
| 19 | VREF | O | VREF output. |
| 20 | TEN | I | TE. Amp inverting input. |
| 21 | TEOUT | O | TE. Amp output. |
| 22 | FEN | I | FE. Amp inverting input. |
| 23 | FEOUT | O | FE. Amp output. |
| 24 | GCTL | O | Gain & APC control. |
| 25 | FBAL | O | F. BAL control. |
| 26 | TBAL | O | T. BAL control. |
| 27 | E | I | Tracking signal input 1. |
| 28 | F | I | Tracking signal input 2. |
| 29 | D | I | Focus signal input 4. |
| 30 | B | I | Focus signal input 2. |
| 31 | C | I | Focus signal input 3. |
| 32 | A | I | Focus signal input 1. |





CIRCUIT DESCRIPTION

#### 6-2 DSP IC : MN6627482WB( IC202)

| Pin No. | Pin Name | I/O | Pin Description | Active | |
|---|---|---|---|---|---|
| | | | | H | L |
| 1 | BCLK | O | Bit clock output for SRDATA. | | |
| 2 | LRCK | O | L, R clock signal output. | | |
| 3 | SRDATA | O | Serial data output. | | |
| 4 | DVDD1 | - | Digital power supply. | | |
| 5 | DVSS1 | - | Digital ground. | | |
| 6 | TX | O | Digital audio interface signal output. | | |
| 7 | MCLK | I | CPC command clock signal input. | | |
| 8 | MDATA | I | CPU command data signal input. | | |
| 9 | MLD | I | CPU command load signal input. | | Load |
| 10 | SENSE | O | Sense signal output(OFT, FESL, NACEND, NAJEND, SFG). | | |
| 11 | FLOCK | O | Focus servo signal output. | | |
| 12 | TLOCK | O | Tracking servo signal output. | | |
| 13 | BLKCK | O | Sub code block clock output. fBLKCK = 75Hz | | |
| 14 | SQCK | I | Sub code Q data clock input pin. | | |
| 15 | SUBQ | O | Sub code Q data signal output pin. | | |
| 16 | DMUTE | I | Connected to be ground. | Mute | |
| 17 | STAT | O | Status signal output. | | |
| 18 | XRST | I | Reset signal input. | | Reset |
| 19 | SMCK | O | 8.4672MHz clock signal output when MSEL is H.<br>4.2336MHz clock signal output when MSEL is L. | | |
| 20 | PMCK | O | 88.2kHz clock signal output when default.<br>Play signal output when command is carry out. | Play | |
| 21 | TRV | O | Traverse forced feed output. | | |
| 22 | TVD | O | Traverse drive output. | | |
| 23 | PC | O | Spindle motor on signal output. L : ON (Default) | | |
| 24 | ECM | O | Drive signal output for spindle motor (forced mode output). | | |
| 25 | ECS | O | Drive signal output for spindle motor (servo error signal output). | | |
| 26 | KICK | O | Kick pulse output for tracking driver. | | |
| 27 | TRD | O | Tracking servo drive output. | | |
| 28 | FOD | O | Focus drive output. | | |
| 29 | VREF | I | Reference power supply for DA output section. | | |
| 30 | FBAL | O | Focus balance adjusting output. | | |
| 31 | TBAL | O | Tracking balance adjusting output. | | |
| 32 | FE | I | Focus error signal input (analog input). | | |
| 33 | TE | I | Tracking error signal input (analog input). | | |
| 34 | RFENV | I | RF envelope signal input (analog input).<br>Vibrating detection signal input when default. | | |
| 35 | VDET | I/O | Software vibrating detection monitor output when command is executed. | Detected | |
| 36 | OFT | I | Off track signal input. | Off Track | |
| 37 | TRCRS | I | Track cross signal input pin (analog input). | | |
| 38 | RFDET | I | RF detector signal input pin. | | Detected |
| 39 | BDO | I | Drop out signal input. | Drop Out | |
| 40 | LDON | O | Laser on signal output. | ON | |
| 41 | PLLF2 | I/O | PLL loop filter switching pin. | | |
| 42 | TOFS | O | Tracking offset adjusting output. | | |
| 43 | WVEL | O | Double speed status signal output. | Double Speed | |
| 44 | ARF | I | RF signal input. | | |
| 45 | IREF | I | Reference current input pin. | | |
| 46 | DRF | I | DSL bias pin. | | |
| 47 | DSLF | I/O | DSL loop filter pin. | | |
| 48 | PLLF | I/O | PLL loop filter pin. | | |
| 49 | VCOF | I/O | VCO loop filter pin. | | |

## CIRCUIT DESCRIPTION

| Pin No. | Pin Name | I/O | Pin Description | Active | |
|---|---|---|---|---|---|
| | | | | H | L |
| 50 | AVDD2 | - | Analog power supply for DSL, PLL, and DA output section. | | |
| 51 | AVSS2 | - | Analog ground for DSL, PLL, and DA output section. | | |
| 52 | EFM/CK384 | O | EFM signal output when IOSEL is H.<br>16.9344MHz clock output when IOSEL is L. | | |
| 53 | PCK/DSLB | O | PLL clock output (fPCK = 4.3218MHz) or DSL balance output. | | |
| 54 | VCOF2 | I/O | Jitter free VCO loop filter pin. | | |
| 55 | SUBC | O | Sub code serial output. | | |
| 56 | SBCK | I | Clock input for sub code serial output. | | |
| 57 | VSS | - | GND | | |
| 58 | X1 | I | Crystal oscillation circuit input. f =16.9344MHz, 33.8688MHz | | |
| 59 | X2 | O | Crystal oscillation circuit output. f =16.9344MHz, 33.8688MHz | | |
| 60 | VDD | - | Power supply for crystal oscillation circuit. | | |
| 61 | BYTCK | O | Bite clock signal output when IOSEL is H.<br>Traverse stop signal output when IOSEL is L. | Stop Mode | |
| 62 | CLDCK | O | General IO pin when default.<br>Sub code frame clock signal output (fCLDCK = 7.35kHz) when command is carry out. | | |
| 63 | FCLK | O | General IO pin when default.<br>Crystal frame clock signal output (fFCLK = 7.35kHz) when command is carry out. | | |
| 64 | IPFLAG | O | Interpolation flag signal output. | | |
| 65 | FLAG | O | Flag signal output. | | |
| 66 | CLVS | O | Spindle servo phase synchronism signal output. | CLV | |
| 67 | CRC | O | Sub code CRC checked output. | OK | NG |
| 68 | DEMPH | O | De-emphasis detection signal output. | ON | |
| 69 | RESY | O | Re-frame synchronism signal RESY output of frame synchronism when IOSEL is H.<br>H : Synchronized L : Non synchronized | | |
| 70 | IOSEL | I | Switching pin for mode. | | |
| 71 | TEST | I | Test pin. | Normal | |
| 72 | AVDD1 | - | Analog power supply for audio output section. | | |
| 73 | OUTL | O | L ch audio output. | | |
| 74 | AVSS1 | - | Analog ground for audio output section. | | |
| 75 | OUTR | O | R ch audio output. | | |
| 76 | RSEL | I | • RF signal polarity assignment pin when default.<br>RSEL is H when bright level is H.<br>RSEL is L when bright level is L.<br>• General IO pin when command is executed.<br>RF signal polarity assignment is set by command. | | |
| 77 | CSEL | I | Designation of oscillation frequency.<br>H : f = 33.8688MHz L : f = 16.9344MHz | | |
| 78 | PSEL | I | Test pin (Normal : L ) when IOSEL is H.<br>SRDATA input when IOSEL is L. | | |
| 79 | MSEL | I | SMCK output when IOSEL is H. Switching pin of frequency.<br>H : SMCK = 8.4672MHz<br>L : SMCK = 4.2336MHz<br>LRCK input when IOSEL is L.<br>H : Lch data, L : Rch data<br>SMCK = 4.2336MHz (Fixed) | | |
| 80 | SSEL | I | SUBQ output mode switching pin when IOSEL is H.<br>H : Q code buffer use mode<br>L : CLDCK synchronism mode<br>BCLK input when IOSEL is L.<br>Q code buffer use mode | | |



RXD-M35

CIRCUIT DESCRIPTION

**6-3 4 channel BTL driver : AN4801SB-E1(IC203)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | IN2 | I | Driver 2 input. |
| 2 | PC2 | I | Power cut input (channel 2 mute). |
| 3 | IN1 | I | Driver 1 input. |
| 4 | PC1 | I | Power cut input (connected to ground). |
| 5 | RETO | O | Reset output. |
| 6 | N.C.1 | - | Unused. |
| 7 | N.C.2 | - | Unused. |
| 8 | PGND1 | - | Ground 1for driver. |
| 9 | PVCC1 | - | Power supply 1 for driver. |
| 10 | V01- | O | Driver 1 inverted output. |
| 11 | V01+ | O | Driver 1 forward output. |
| 12 | V02- | O | Driver 2 inverted output. |
| 13 | V02+ | O | Driver 2 forward output. |
| 14 | V03- | O | Driver 3 inverted output. |
| 15 | V03+ | O | Driver 3 forward output. |
| 16 | V04- | O | Driver 4 inverted output. |
| 17 | V04+ | O | Driver 4 forward output. |
| 18 | PVCC2 | - | Power supply 2 for driver. |
| 19 | PGND2 | - | Ground 2 for driver. |
| 20 | STBY | I | Standby input. |
| 21 | N.C.3 | - | Unused. |
| 22 | N.C.4 | - | Unused. |
| 23 | SVCC | - | Power supply. |
| 24 | VREF | - | Reference voltage input. |
| 25 | IN4 | I | Driver 4 input. |
| 26 | IN3 | I | Driver 3 input |

**6-4 PLL Frequency Synthesizer LSI : LC72131M (IC102)**

| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 1 | X IN | I | Crystal resonator connection. |
| 2 | CE | I | Chip enable. |
| 3 | DI | I | Input serial data. |
| 4 | CL | I | Used as the synchronization clock when serial data is input to the DI(pin 3), or when serial data is output DO(pin 5). |
| 5 | DO | O | Outputs serial data. |
| 6 | AM ($\overline{B01}$) | O | • Dedicated output pins.<br>• The output states are determined by B01 to B04 in the serial data.<br>"Data"=0 : Open "Data"=1 : Low<br>• These pins go to the open state after the power-on reset. |
| 7 | EMPH ($\overline{B02}$) | | |
| 8 | S/M ($\overline{B03}$) | | |
| 9 | FM ($\overline{B04}$) | | |
| 10<br>12 | ATT (I01)<br>IF CON (I02) | I/O | Pins used for both input and output.<br>The input or output state is determined by bits I0C1and I0C2 in the serial data.<br>Data = 0 : Open, Data = 1: Low |
| 11 | IF IN | I | IF count input. |
| 13 | AM IN | I | Local oscillator signal input. |
| 14 | FM IN | I | Local oscillator signal input. |
| 15 | VDD | - | Power supply. |
| 16 | PD | O | PLL charge pump output. |
| 17<br>18 | AIN<br>AOUT | I<br>O | The MOS transistor used for the PLL active low-pass filter. |
| 19 | VSS | - | Ground. |
| 20 | X OUT | O | Crystal resonator connection. |

# CIRCUIT DESCRIPTION

### 6-5 RDS Demodulator IC : BU1923F (IC103)

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | QUAL | O | Output for signal quality indication. |
| 2 | RDS DATA | O | Demodulation data output. |
| 3 | VREF | I | Reference voltage input. |
| 4 | MUX | I | Composite signal input. |
| 5 | VDD1 | - | Analog power supply. |
| 6 | VSS1 | - | Analog GND. |
| 7 | VSS3 | - | Analog GND. |
| 8 | CMP | I | Comparator. |
| 9 | T1 | I | Test pin. |
| 10 | T2 | I | Test pin. |
| 11 | VSS2 | - | Digital GND. |
| 12 | VDD2 | - | Digital power supply. |
| 13 | XI | I | Crystal oscillation circuit input. |
| 14 | XO | O | Crystal oscillation circuit output. |
| 15 | N.C. | - | Unused. |
| 16 | RDS CLK | I/O | Demodulation clock. |

### 6-6 Electronic Volume System IC : LC75342M (IC301)

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | V.DATA | I | Serial data input pin for control. |
| 2 | V.CE | I | Chip enable pin. |
| 3 | VSS | - | Ground pin. |
| 4 | TEST | - | Electronic volume control pin. (To be connected to the VSS.) |
| 5<br>26 | LOUT<br>ROUT | O | Volume + equalizer output pins. |
| 6 , 7<br>24.25 | LBASS2,LBASS1<br>RBASS1,RBASS2 | - | Bass-band filter comprising capacitor and resistor connection pins. |
| 8<br>23 | LTRE<br>RTRE | - | Capacitor connection pins comprising treble band filter. |
| 9<br>22 | LE IN<br>RE IN | I | Volume + equalizer input pins. |
| 10<br>21 | LS OUT<br>RS OUT | O | Input selector output pins. |
| 11,12<br>13,14<br>17,18<br>19,20 | L CD, L TUNER<br>L TAPE, L AUX<br>R AUX, R TAPE<br>R TUNER, R CD | I | Input signal pins. |
| 15,16,27 | N.C. | - | To be open or connected to VSS. |
| 28 | VREF | - | Reference voltage for analog ground. |
| 29 | VDD | - | Power supply pin. |
| 30 | V.CLK | I | Clock input pin for control. |



RXD-M35

CIRCUIT DESCRIPTION

### 6-7 FL Driver : MN12510F (IC801)

| Pin No. | Pin Name | I/O | Pin Description |
|---|---|---|---|
| 1~10<br>12~15 | DGT(13~4)<br>DGT(3~0) | O | Output pin of Grid. |
| 11,17 | N.C.(1,2) | - | Unused. |
| 16 | VPP | - | Power supply (-) for FL driver. |
| 18 | VDD | - | Power supply for (+5.0V) FL driver. |
| 19 | OSC1 | I | Crystal oscillation circuit input. |
| 20 | OSC2 | O | Crystal oscillation circuit output. |
| 21 | VSS | - | GND |
| 22<br>23<br>24 | CE<br>S.CK<br>S.DI | I<br>I<br>I | Serial data transfer pin.<br>Chip select input.<br>Synchronism clock input.<br>Transfer data input. |
| 25 | S.DO | O | Input pin of system reset. |
| 26~30 | P30~P34 | O | Control port of current buffer. |
| 31~44 | SEG(0~13) | O | Output pin of segment. |

### 6-8 Power Amplifier (L Channel) : TDA2030A (IC602)

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | LIN | I | Left channel input. |
| 2 | LNF | I | Left channel feed back. |
| 3 | -VS | - | Power supply (-B) |
| 4 | LOUT | O | Left channel output. |
| 5 | +VS | - | Power supply (+B) |

# RXD-M35

## ADJUSTMENT

### 1. AM SECTION

fL : Low-range frequency
K Type : 530kHz Other Types : 531kHz
fH : High-range frequency
K Type : 1610kHz Other Types : 1602kHz

Signal generator : 400HZ, 30%, AM modulated Antenna Input Level : 60dBf

| Test Stage | Input Frequency | Output Settings | Frequency Display | Adjusting Parts | Setting |
|---|---|---|---|---|---|
| AM Band Coverage | fL | - | fL | T102 | 2.5V±0.1V |
| * AM Tracking | fL<br>fH | Speaker Terminal | fL<br>fH | T101<br>TC101 | Maximum Output |
| AM IF | fL | Speaker Terminal | fL | T103 | Minimum Distortion |

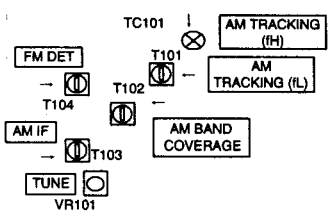
* Antenna Input Level : 30~40dBf

### 2. FM SECTION

Signal generator : 1kHz, 75kHz dev, FM modulated Antenna Input Level : 60dBf

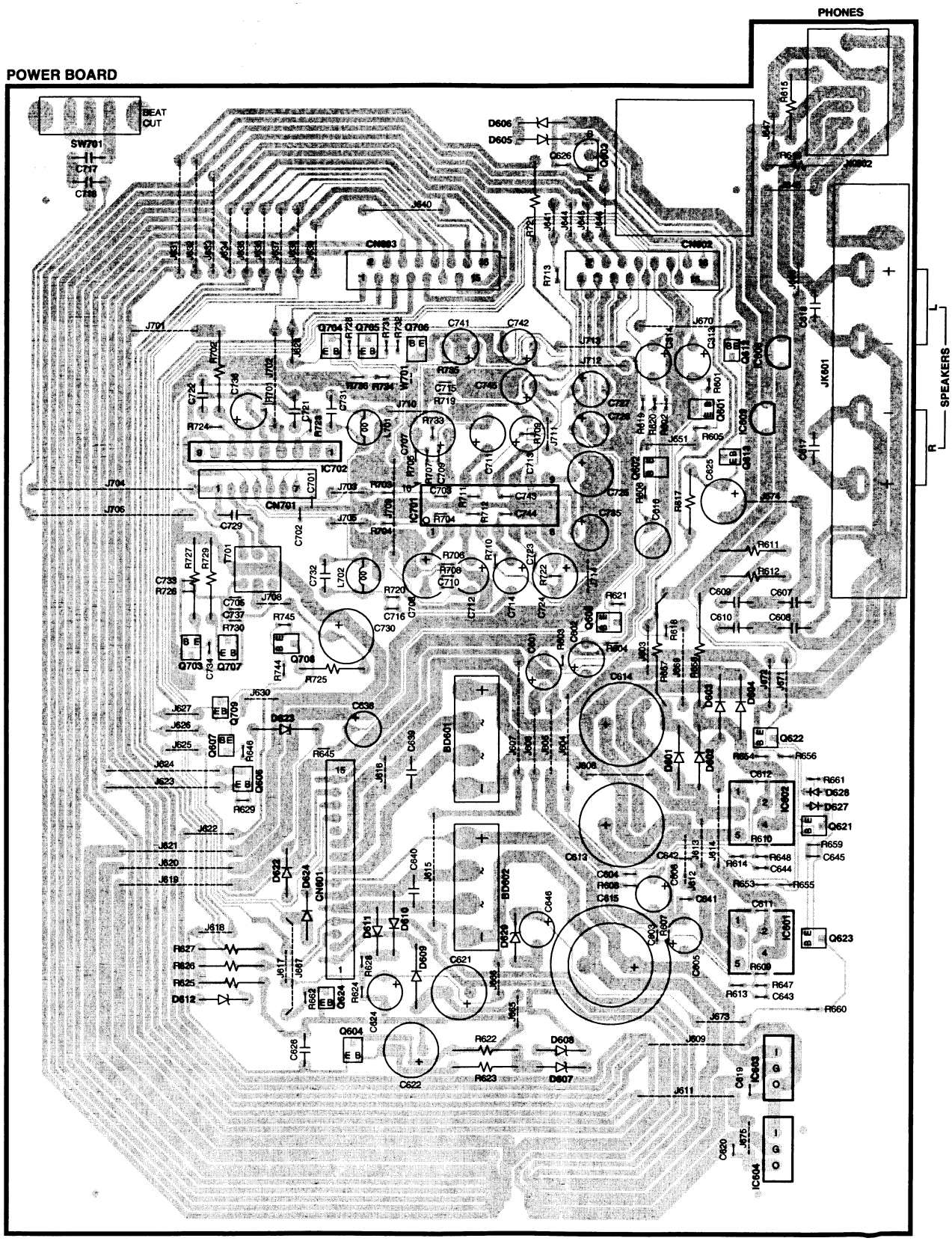
| Test Stage | Input Frequency | Output Settings | Frequency Display | Adjusting Parts | Setting |
|---|---|---|---|---|---|
| FM IFT | 98.00MHz (Stereo) | Speaker Terminal | 98.00MHz (Stereo) | FM FRONT END | Minimum Distortion |
| FM DET | 98.00MHz (Mono) | Speaker Terminal | 98.00MHz (Mono) | T104 | Minimum Distortion |
| TUNED LEVEL | 98.00MHz (35dBf ±10dBf) | - | 98.00MHz | VR101 | * |

* Adjust VR101 and stop at the point where tuned (LCD) goes on.




Adjusting Parts Lay Out

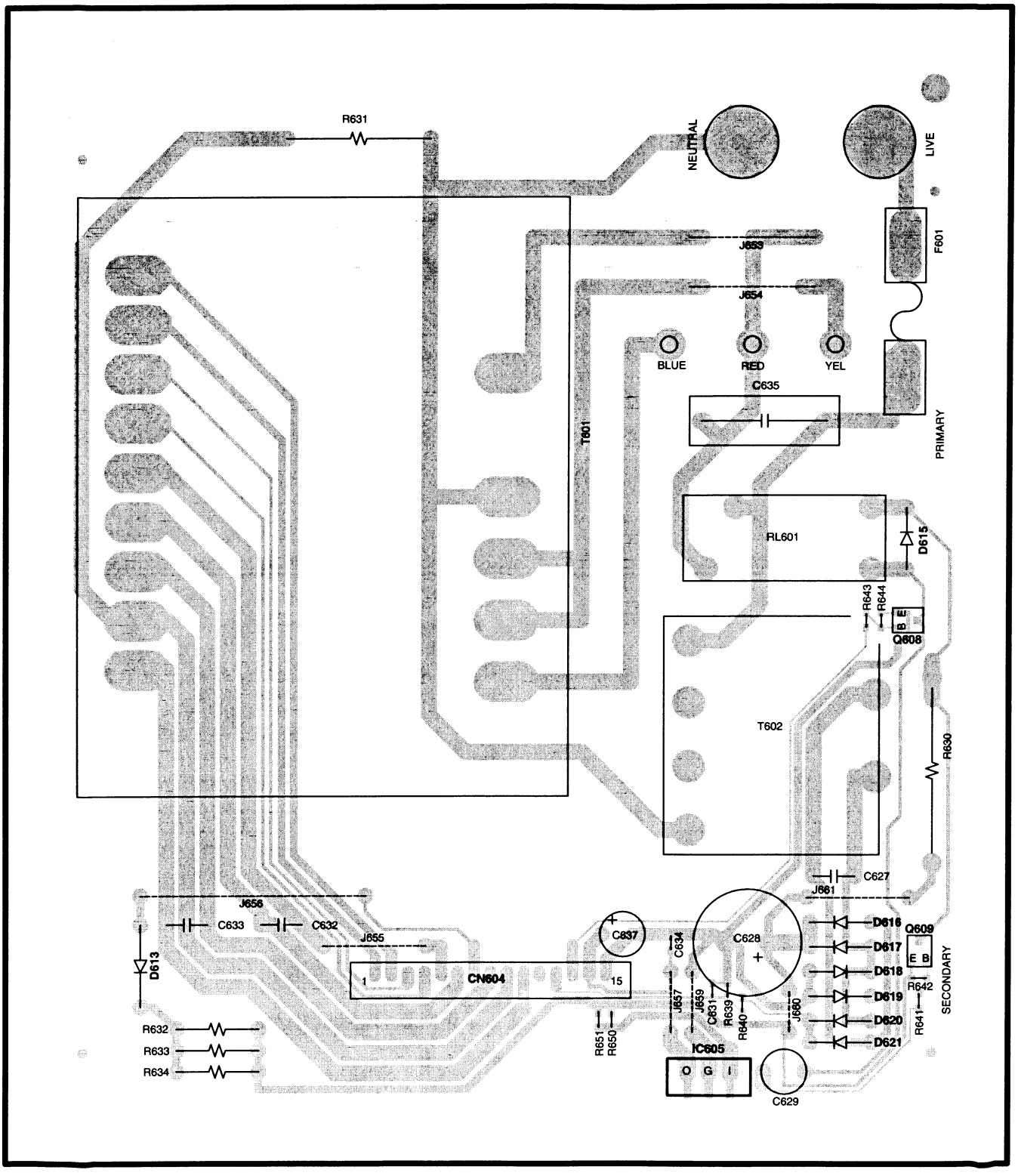
# PC BOARD (Component side view)




Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD (Component side view)

## TRANSFORMER BOARD

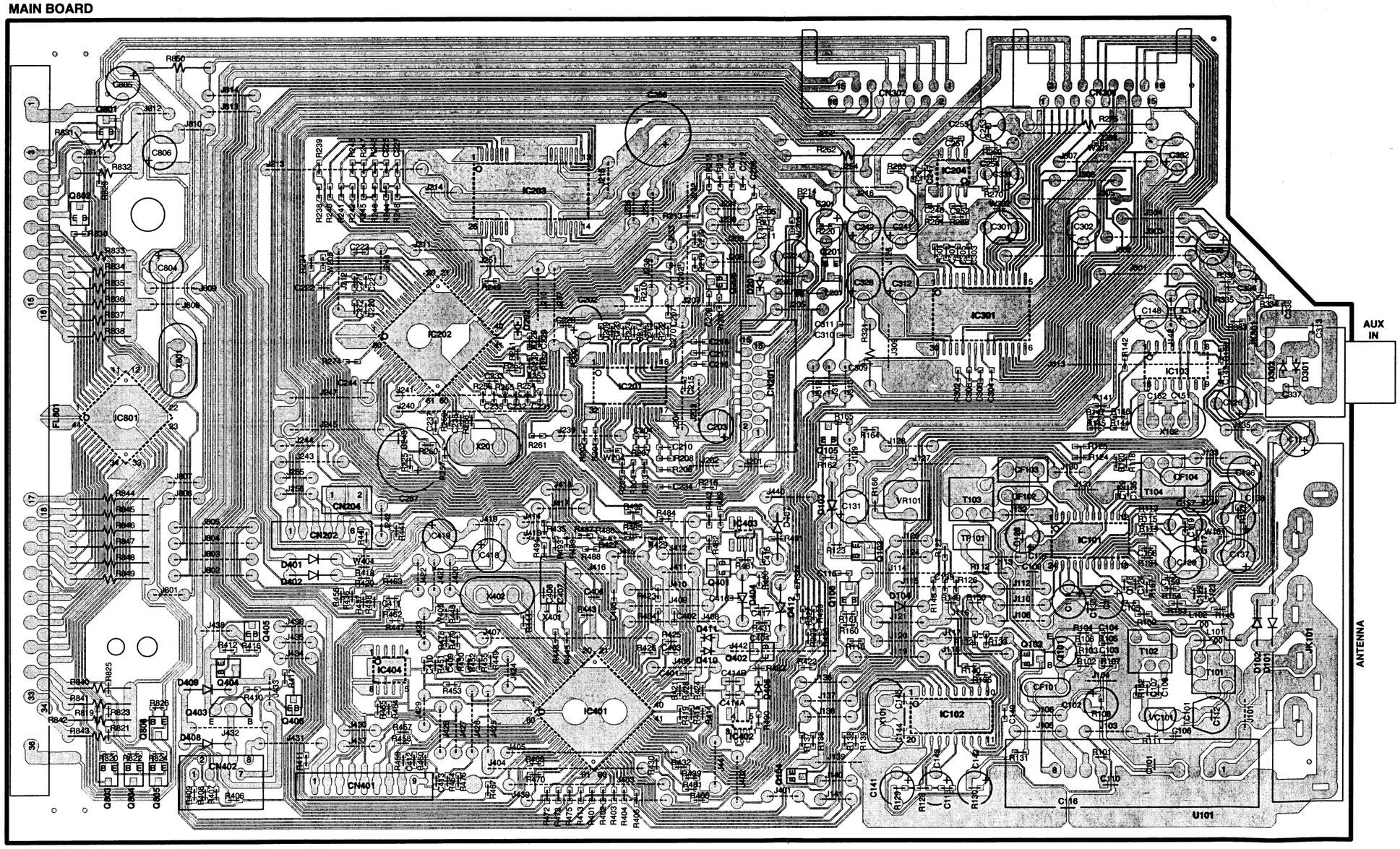




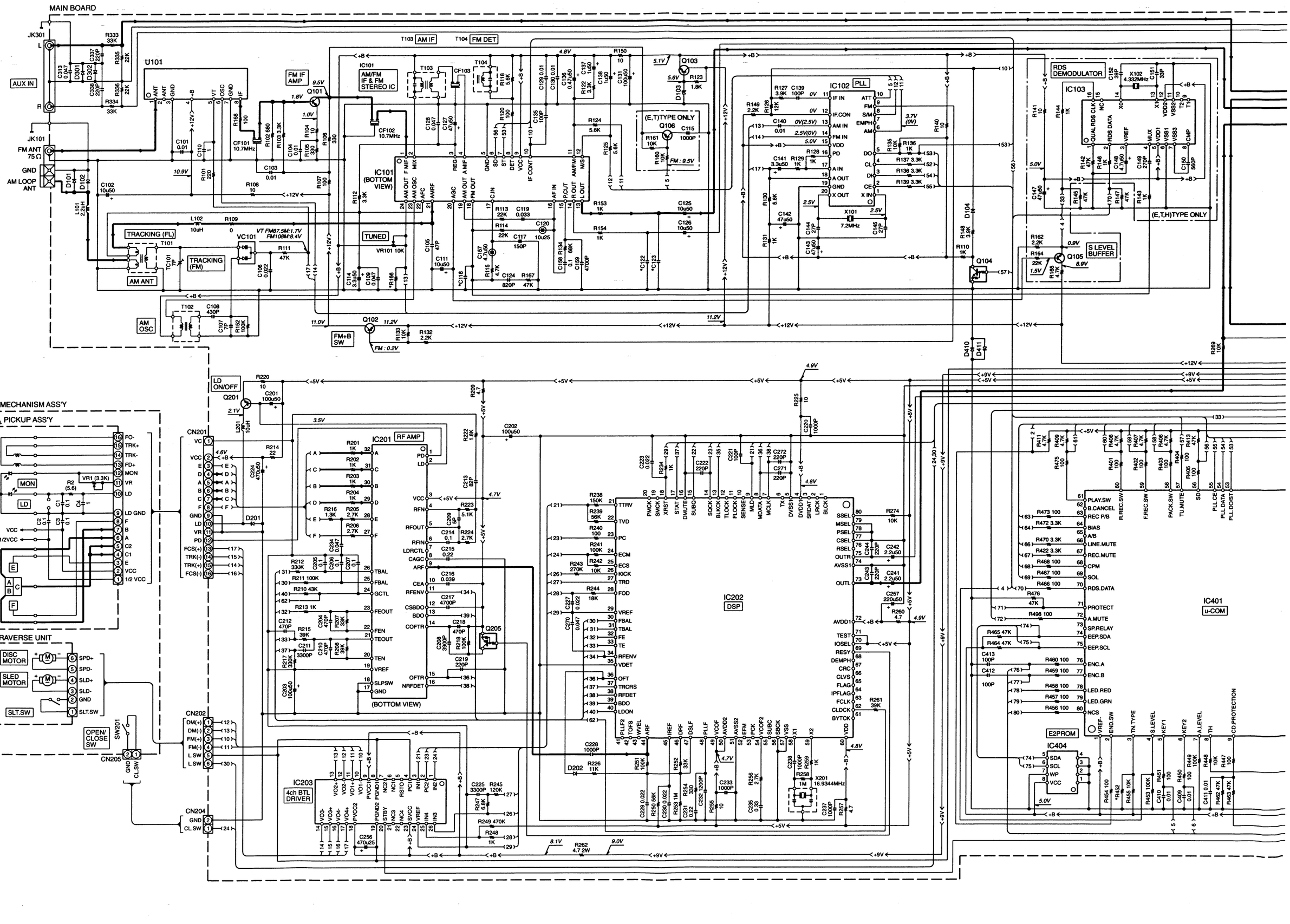

Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD(Component side view)

MAIN BOARD




Refer to the schematic diagram for the value of resistors and capacitors.


MAIN BOARD
CD MECHANISM ASS'Y
PICKUP ASS'Y
TRAVERSE UNIT
U101
IC101 AM/FM IF & FM STEREO IC
IC102 PLL
IC103
RDS DEMODULATOR
IC201 RF AMP
IC202 DSP
IC203 4ch BTL DRIVER
IC401 u-COM
E2PROM
IC404
S LEVEL BUFFER
TRACKING (FL)
TRACKING (FM)
AM ANT
AM OSC
TUNED
FM IF AMP
FM+B SW
LD ON/OFF
OPEN/ CLOSE SW
(E,T)TYPE ONLY
(E,T,H)TYPE ONLY
(BOTTOM VIEW)
AUX IN
FM ANT 75Ω
AM LOOP ANT
DISC MOTOR
SLED MOTOR
SLT.SW
MON
LD

MAIN BOARD

ELECTRONIC VOLUME & SYSTEM IC

IC301

SOL. DRIVER

Q403 9.0V

Q404 CAPSTAN DRIVER

Q405

Q406

CN402
1 PLAY.SW
2 R.REC.SW
3 F.REC.SW
4 PACK.SW
5 CMP
6 SOL
7 TA.M GND
8 END.SW

CASSETTE MECHA 2/2 U-4

CN301
16 REC.MUTE
15 +9.0V
14 PROTECTION
13 F.OFF1
12 L.OUT
11 A.GND
10 R.OUT
9 PWR.RELAY
8 A.MUTE
7 TA.L
6 +12.0V
5 TA.R
4 CD.MGND
3 REC.L
2 CD.+9.0V
1 REC.R

POWER BOARD-CN602 2/2 U-2

CN302
16 F1
15 CD.+5.0V
14 F2
13 CD.DGMD
12 VPP
11 CD.POWER
10 FL.GND
9 uGND
8 +5.0V
7 +5.6V
6 CD.PROTECTION
5 LINE.MUTE
4 TA.MGND
3 TA.REC/PB
2 TA.+9.0V
1 TA.BIAS

POWER BOARD-CN603 2/2 U-6

IC402 (BOTTOM VIEW)

RESET

Q401

Q402

D412

D406

CN401
9 ENC.A
8 ENC.B
7 LED.RED
6 LED.GRN
5 +5.0V
4 KEY1
3 KEY2
2 REM.COM
1 GND

CN801

SW807 F.SKIP
SW806 CD
SW805 STOP
SW804 B.SKIP
SW803 TUNER
SW802 AUX
SW801 POWER
SW815 SET
SW814 MODE
SW813 TAPE
SW809 REC

IC802

REMOTE SENSOR

ENCODER

VR801

C801

D801

FL801

IC801 (BOTTOM VIEW)

FL DRIVER

X801 4.0MHz

Q801

Q802

X401 32.768KHz

X402 8.388MHz

| | 1G | 2G | 3G | 4G | 5G | 6G | 7G-14G |
|---|---|---|---|---|---|---|---|
| P1 | — | — | — | — | ⏱ | — | — |
| P2 | — | — | — | — | 1 | — | — |
| P3 | — | — | — | — | 2 | — | — |
| P4 | — | — | — | — | ⏲ | — | — |
| P5 | 2a | ▷ | 2a | PGM | 2a | 2a | d |
| P6 | 2b | ◁ | 2b | RDM | 2b | 2b | e |
| P7 | 2f | ☾ | 2f | ● | 2c | 2f | c |
| P8 | 2g | ☽ | 2g | II | EX. BASS | 2g | n |
| P9 | 2c | ⇄ | 2c | O.T.E | LOUD | 2c | p |
| P10 | 2e | TAPE EQ. | 2e | kHz | A.P.S. | 2e | r |
| P11 | 2d | TOTAL | 2d | MHz | Col | 2d | m |
| P12 | Col | ((ST)) | 1a | 1a | 1a | 1a | g |
| P13 | Dp | RDS | 1b | 1b | 1b | 1b | k |
| P14 | ▷ | PTY | 1f | 1f | 1f | 1f | j |
| P15 | II | REMAIN | 1g | 1g | 1g | 1g | h |
| P16 | ↻ | FM | 1c | 1c | 1c | 1c | f |
| P17 | 1 | AM | 1e | 1e | 1e | 1e | b |
| P18 | P.B.C. | ⋮ | 1d | 1d | 1d | 1d | a |

7G-14G

1G,3G,4G

5G

6G

Q101 : 2SC930E
Q102,106,201,402,803-806 : 2SA1037K
Q103,105,401,801,802 : 2SC2412K
Q104,405,406 : DTC124EUA
Q205 : DTA124EUA
Q403 : 2SB1205S
Q404 : 2SA1036K

IC101 : LA1844M
IC102 : LC72131MD-TFB
IC103 : BU1923F
IC201 : AN8399SA-E1
IC202 : MN6627482WB
IC203 : AN4801SB-E1
IC301 : LC75342M
IC401 : MN101C51FGC
IC402 : BD4740G
IC404 : BR24C02F-W
IC801 : MN12510F
IC802 : W02-2981-08

D101,102,104,401,402,404,406,408,409 : 1SS133
D103 : MTZJ5.6B
D201,301,302,410,411 : 1SS355
D412 : MTZJ2.7B
D801 : B30-2558-08

VC101 : SVC342L

| DESTINATION | | C118 | C122, 123 | R166 | R452 | M423, 489 |
|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | |
| U.S.A. | K | 470P | 0.022 | 2.7K | 18K | NO |
| CANADA | P | | | | 6.8K | YES |
| SHANGHAI | V | | | | 2.7K | |
| AUSTRALIA | X | 220P | 0.015 | 6.8K | 220K | NO |
| U.K. | T | | | | | |
| EUROPE | E | | | | | |
| KOREA | H | 220P | 0.015 | 6.8K | | |

RECORDING LINE
SIGNAL LINE
GND LINE
+B LINE
−B LINE

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP.

RXD-M35 (1/2)

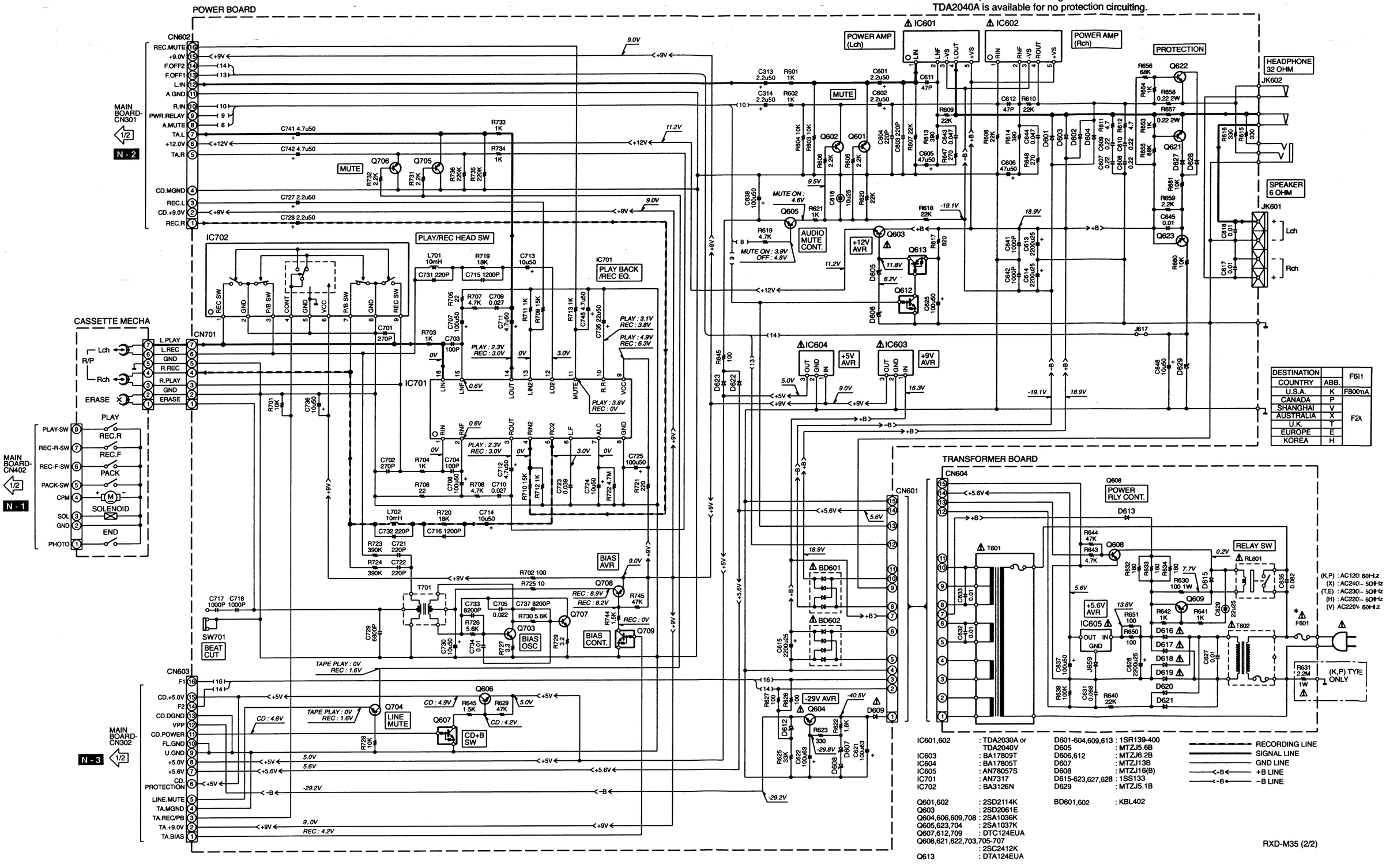
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y39-4342-70

RXD-M35

KENWOOD

Note: Unit has a protection circuiting it use TDA2030A.
TDA2040A is available for no protection circuiting.




| DESTINATION | | F601 |
|---|---|---|
| COUNTRY | ABB. | |
| U.S.A. | K | F800mA |
| CANADA | P | |
| SHANGHAI | V | |
| AUSTRALIA | X | F2A |
| U.K. | T | |
| EUROPE | E | |
| KOREA | H | |

| | |
|---|---|
| IC601,602 | : TDA2030A or TDA2040V |
| IC603 | : BA17809T |
| IC604 | : BA17805T |
| IC605 | : AN78057S |
| IC701 | : AN7317 |
| IC702 | : BA3126N |
| Q601,602 | : 2SD2114K |
| Q603 | : 2SD2061E |
| Q604,606,609,708 | : 2SA1036K |
| Q605,623,704 | : 2SA1037K |
| Q607,612,709 | : DTC124EUA |
| Q608,621,622,703,705-707 | : 2SC2412K |
| Q613 | : DTA124EUA |
| D601-604,609,613 | : 1SR139-400 |
| D605 | : MTZJ5.6B |
| D606,612 | : MTZJ6.2B |
| D607 | : MTZJ13B |
| D608 | : MTZJ16(B) |
| D615-623,627,628 | : 1SS133 |
| D629 | : MTZJ5.1B |
| BD601,602 | : KBL402 |

RECORDING LINE
SIGNAL LINE
GND LINE
+B LINE
−B LINE

(K,P) : AC120V 60Hz
(X) : AC240V 50Hz
(T,E) : AC230V 50Hz
(H) : AC220V 60Hz
(V) AC220V 60Hz

RXD-M35 (2/2)

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

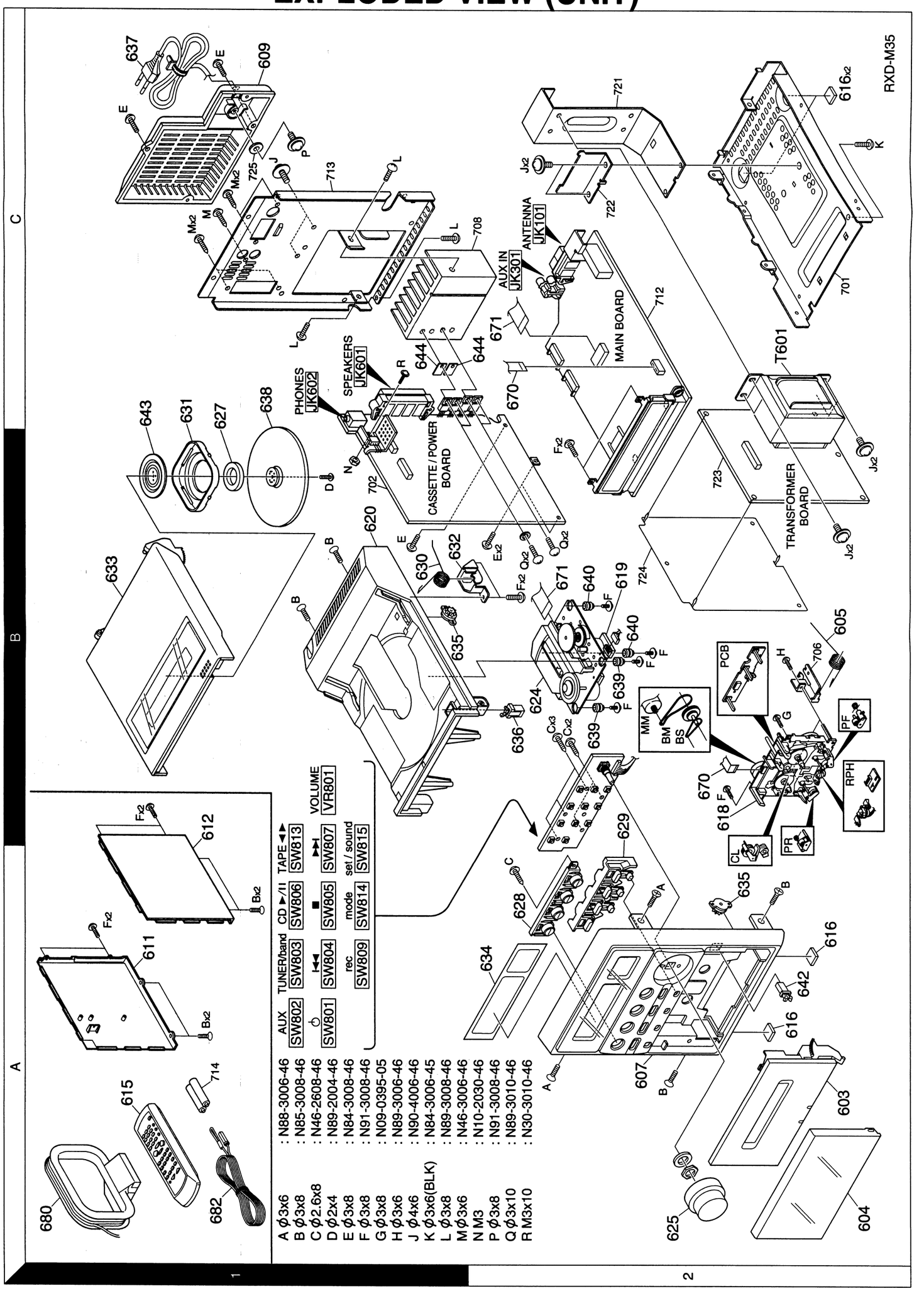
The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

Y39-4342-70

RXD-M35

KENWOOD

# EXPLODED VIEW (UNIT)




Parts with exploded numbers larger than 700 are not supplied.

✱ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| **LS-M35** | | | | | | |
| - | | ✱ | B06-2032-08 | GRILLE ASSY SPK-NET-ASSY-LSF | F30 | |
| - | | ✱ | B06-2031-08 | GRILLE ASSY SPK-NET-ASSY-N | | |
| - | | ✱ | B06-2030-08 | GRILLE ASSY SPK-NET-ASSY-S | | |
| - | | ✱ | H50-4640-08 | SPK. CTN."KENW 153-03350- | SLV | |
| - | | ✱ | H50-4641-08 | SPK. CTN."KENW 153-03350-1266 | GLD | |
| - | | ✱ | H50-4642-08 | SPK. CTN."KENW 153-03350-2266 | F30 | |
| - | | ✱ | H50-4690-08 | SPK. CTN."KENW 153-03350- | H | |
| SP1 | | ✱ | T07-0918-08 | 4" SPK. 6 OHM 029-10006-552 | | |
| **RXD-M35** | | | | | | |
| - | | | H25-1749-08 | POLYBAG 10X13 150-10013-510 | | |
| - | | | H25-1750-08 | POLYBAG 16X18 150-16018-510 | NE | |
| - | | ✱ | B60-5313-08 | INST.BOOK(EN) 152-03350-0266 | E2STSX | |
| - | | ✱ | B60-5313-08 | INST.BOOK(EN) 152-03350-0266 | SKE3NT | |
| - | | ✱ | B60-5314-08 | INST.BOOK(FR) 152-03354-0266 | NESE | |
| - | | ✱ | B60-5315-08 | INST.BOOK(GE) 152-03354-1266 | NESE | |
| - | | ✱ | B60-5316-08 | INST.BOOK(NE) 152-03354-2266 | NESE | |
| - | | ✱ | B60-5317-08 | INST.BOOK(IT) 152-03354-3266 | NESE | |
| - | | ✱ | B60-5318-08 | INST.BOOK(ES) 152-03354-4266 | NESE | |
| - | | ✱ | B60-5319-08 | INST.BOOK(PL) 152-03356-0266 | E2E3 | |
| - | | ✱ | B60-5320-08 | INST.BOOK(HU) 152-03356-1266 | E2E3 | |
| - | | ✱ | B60-5321-08 | INST.BOOK(CZ) 152-03356-2266 | E2E3 | |
| - | | ✱ | B60-5322-08 | INST.BOOK(RU) 152-03356-3266 | E2E3 | |
| - | | | H25-1649-08 | POLYBAG 6X10 W 150-06010-210 | | |
| - | | | H25-1660-08 | POLYBAG 16X20 150-16020-510 | | |
| - | | ✱ | H50-4631-08 | ITEM CARTON RXD-M35-S | SE | |
| - | | ✱ | H50-4632-08 | ITEM CARTON RXD-M35-S | E2 | |
| - | | ✱ | H50-4633-08 | ITEM CARTON RXD-M35-S | ST | |
| - | | ✱ | H50-4634-08 | ITEM CARTON RXD-M35-N | NE | |
| - | | ✱ | H50-4635-08 | ITEM CARTON RXD-M35-N | E3 | |
| - | | ✱ | H50-4636-08 | ITEM CARTON RXD-M35-N | NT | |
| - | | ✱ | H50-4691-08 | ITEM CARTON RXD-M35-N | H | |
| - | | ✱ | H60-1199-08 | CARTON CASE HM-335-S | SKSX | |
| 603 | 2A | ✱ | A53-2345-08 | CASS.DOOR (ORA 110-03350-101 | | |
| 604 | 2A | ✱ | B10-3901-08 | CASS.DOOR LENS 116-03350-001 | SEE2ST | |
| 604 | 2A | ✱ | B10-3901-08 | CASS.DOOR LENS 116-03350-001 | SKSX | |
| 604 | 2A | ✱ | B10-3902-08 | CASS.DOOR LENS 116-03350-002 | H | |
| 604 | 2A | ✱ | B10-3902-08 | CASS.DOOR LENS 116-03350-002 | NEE3NT | |
| 605 | 2B | ✱ | G01-4347-08 | CASSETTE DOOR 133-03353-308 | | |
| 607 | 2A | ✱ | A60-2310-08 | F.CAB.ASSY(W/O M35S-FCSA-EE2T | SEE2ST | |
| 607 | 2A | ✱ | A60-2311-08 | F.CAB.ASSY(W/O M35S-FCSA-XV | SX | |
| 607 | 2A | ✱ | A60-2312-08 | F.CAB. ASSY (W M35S-FCSA-K | SK | |
| 607 | 2A | ✱ | A60-2313-08 | F.CAB. ASSY (W M35N-FCSA-EE2T | H | |
| 607 | 2A | ✱ | A60-2313-08 | F.CAB. ASSY (W M35N-FCSA-EE2T | NEE3NT | |
| 609 | 1C | ✱ | F07-1799-08 | HEATSINK COVER 129-03359-6956 | | |
| 611 | 1A | ✱ | A50-1409-08 | LEFT SIDE PLAT 109-03351-0956 | NTH | |
| 611 | 1A | ✱ | A50-1409-08 | LEFT SIDE PLAT 109-03351-0956 | SEE2ST | |
| 611 | 1A | ✱ | A50-1409-08 | LEFT SIDE PLAT 109-03351-0956 | SXNEE3 | |
| 611 | 1A | ✱ | A50-1411-08 | LEFT SIDE PLAT 109-03353-0956 | SK | |
| 612 | 1B | ✱ | A50-1408-08 | RIGHT SIDE PLA 109-03350-0956 | NTH | |
| 612 | 1B | ✱ | A50-1408-08 | RIGHT SIDE PLA 109-03350-0956 | SEE2ST | |
| 612 | 1B | ✱ | A50-1408-08 | RIGHT SIDE PLA 109-03350-0956 | SXNEE3 | |
| 612 | 1B | ✱ | A50-1410-08 | RIGHT SIDE PLA 109-03352-0956 | SK | |
| 615 | 1A | | A70-1568-05 | REMOTE HANDSET 182-03350-002 | H | |

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❷

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| 615 | 1A | | A70-1568-05 | REMOTE HANDSET 182-03350-002 | NENTST | |
| 615 | 1A | | A70-1568-05 | REMOTE HANDSET 182-03350-002 | SEE2E3 | |
| 615 | 1A | | A70-1569-05 | REMOTE HANDSET 182-03350-001 | SKSX | |
| 616 | 2A,2C | ✱ | G11-2919-08 | RUBBER FOOT (7 136-07503-750 | | |
| 618 | 2B | | D40-1772-05 | SINGLE LOGIC D 141-01227-211 | | |
| 619 | 2B | | D40-1640-05 | SONY CD MECHAN 160-00213-000 | | |
| 620 | 1B | ✱ | A02-3063-08 | TOP CABINET (L 103-03350-0902 | NTH | |
| 620 | 1B | ✱ | A02-3063-08 | TOP CABINET (L 103-03350-0902 | SEE2ST | |
| 620 | 1B | ✱ | A02-3063-08 | TOP CABINET (L 103-03350-090 | SXNEE3 | |
| 620 | 1B | ✱ | A02-3064-08 | TOP CAB. (L.GR 103-03351-0902 | SK | |
| 624 | 2B | | F07-1688-08 | 9829 CD COVER 161-00213-202 | | |
| 625 | 2A | ✱ | K29-8258-08 | VOLUME KNOB (C 127-03351-013 | | |
| 627 | 1C | ✱ | T99-0624-08 | MAGNET "NMB" F 161-00090-030 | | |
| 628 | 2A | ✱ | K29-8259-08 | BUTTON SET-A ( 128-03352-1902 | | |
| 629 | 2B | ✱ | K29-8260-08 | BUTTON SET-B ( 128-03352-2902 | | |
| 630 | 1B | ✱ | G01-4346-08 | DOOR SPRING (S 162-03350-312 | | |
| 631 | 1C | ✱ | F07-1800-08 | MAGNET HOLDER 129-03350-0956 | | |
| 632 | 1B | ✱ | J19-6382-08 | SPRING HOLDER 129-03350-000 | | |
| 633 | 1B | ✱ | F07-1797-08 | DOOR ASSY(L.GR M35S-CDDSA-00 | SEE2ST | |
| 633 | 1B | ✱ | F07-1797-08 | DOOR ASSY(L.GR M35S-CDDSA-00 | SXSK | |
| 633 | 1B | ✱ | F07-1798-08 | DOOR ASSY(L.GR M35N-CDDSA-00 | H | |
| 633 | 1B | ✱ | F07-1798-08 | DOOR ASSY(L.GR M35N-CDDSA-00 | NEE3NT | |
| 634 | 2A | ✱ | B11-1567-08 | FL FILTER (MIT 125-03352-000 | | |
| 635 | 2A,1B | | D39-0345-08 | OIL DAMPER SET 130-03313-010 | | |
| 636 | 2B | | J52-0045-08 | LATCH W/PUSH L 020-41100-900 | | |
| ⚠ 637 | 1C | ✱ | E30-7295-08 | AC CORD SAA AP 023-60080-002 | SX | |
| ⚠ 637 | 1C | ✱ | E30-7296-08 | AC CORD UL APP 023-60040-012 | SK | |
| ⚠ 637 | 1C | ✱ | E30-7293-08 | AC CORD VDE AP 023-65020-300 | NE | |
| ⚠ 637 | 1C | ✱ | E30-7293-08 | AC LINE CORD V | SEE2E3 | |
| ⚠ 637 | 1C | ✱ | E30-7294-08 | AC LINE CORD V 023-60040-004 | STNT | |
| ⚠ 637 | 1C | ✱ | E30-7298-08 | AC LINE CORD V 023-60110-301 | H | |
| 638 | 1C | | F07-2001-08 | 213CDM CD MAGN 161-00213-206 | | |
| 639 | 2B | | J02-1545-08 | HARD RUBBER NO 161-05117-101 | | |
| 640 | 2B | | J02-1546-08 | SOFT RUBBER NO 161-05116-001 | | |
| 642 | 2A | | D32-0368-08 | CD LOCKER PLAS 130-10618-200 | | |
| 643 | 1C | | J21-6982-08 | SANYO CD MAGNE 161-00011-203 | | |
| 644 | 1C | ✱ | F20-3606-08 | HEAT PATH GTQ- 136-90000-003 | | |
| 670 | 2B,2C | ✱ | E35-3530-08 | 8P FILM CONNEC 037-44211-085 | | |
| 671 | 2B,2C | | E35-2578-08 | 16P FILM TYPE 037-45101-164 | | |
| 680 | 1A | | T90-0846-08 | AM LOOP ANTENN 015-82100-001 | | |
| 682 | 1A | | T90-0861-08 | 1P J.WIRE #26U 025-10001-003 | | |
| **CASSETTE (D40-1772-05)** | | | | | | |
| BM | 2B | | D16-0748-08 | MAIN BLT FF19U-21 | | |
| BS | 2B | | D16-0749-08 | F/R BELT FF19S-31 | | |
| CL | 2B | ✱ | D19-0331-08 | CLUTCH ASSY F522-060 | | |
| PF | 2B | | D14-0399-08 | ROLLER PINCH R F514-133 | | |
| PR | 2B | | D14-0400-08 | ROLLER PINCH L F514-134 | | |
| MM | 2B | ✱ | T42-1122-08 | MTR MAIN BLK F525-345 | | |
| RPH | 2B | | T39-0041-08 | PLATE HD BLOCK F513-853 | | |
| PCB | 2B | | W02-2926-08 | PCB CONTROL F567-689 | | |
| **ELECTRONICS PARTS** | | | | | | |
| C101 | | | CK73GB1H103K | CHIP C 0.010UF K | | |

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❸

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|---|---|---|---|---|---|---|---|---|
| C102 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV | | |
| C103,104 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C105 | | | CC73GCH1H470J | CHIP C | 47PF | J | | |
| C106 | | | CK73GB1H223K | CHIP C | 0.022UF | K | | |
| C107 | | | CC73GCH1H070C | CHIP C | 7.0PF | C | | |
| C108 | | | CK73GB1H431K | CHIP C | 430PF | K | | |
| C109 | | | CK73GB1H473K | CHIP C | 0.047UF | K | | |
| C110 | | | CK73GB1H105Z | CHIP C | 1.0UF | Z | | |
| C111 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV | | |
| C114 | | | CE04LW1H3R3M | ELECTRO | 3.3UF | 50WV | | |
| C115 | | | CK73GB1H102K | CHIP C | 1000PF | K | E3NTST | |
| C115 | | | CK73GB1H102K | CHIP C | 1000PF | K | H | |
| C115 | | | CK73GB1H102K | CHIP C | 1000PF | K | SENEE2 | |
| C117 | | | CK73GB1H151J | CHIP C | 150PF | J | | |
| C118 | | | CK73GB1H221K | CHIP C | 220PF | K | E3NTST | |
| C118 | | | CK73GB1H221K | CHIP C | 220PF | K | H | |
| C118 | | | CK73GB1H221K | CHIP C | 220PF | K | NESEE2 | |
| C118 | | | CK73GB1H471K | CHIP C | 470PF | K | SKSX | |
| C119 | | | CK73GB1H333K | CHIP C | 0.033UF | K | | |
| C120 | | | CE04BP1H100M | NP-ELEC | 10UF | 50WV | | |
| C122,123 | | | CK73GB1H153K | CHIP C | 0.015UF | K | E3NTST | |
| C122,123 | | | CK73GB1H153K | CHIP C | 0.015UF | K | H | |
| C122,123 | | | CK73GB1H153K | CHIP C | 0.015UF | K | NESEE2 | |
| C122,123 | | | CK73GB1H223K | CHIP C | 0.022UF | K | SKSX | |
| C124 | | | CK73GB1H821K | CHIP C | 820PF | K | | |
| C125,126 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV | | |
| C127 | | | CE04LW1H470M | ELECTRO | 47UF | 50WV | | |
| C128 | | | CK73GB1H473K | CHIP C | 0.047UF | K | | |
| C129,130 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C131 | | | CE04LW1H101M | ELECTRO | 100UF | 50WV | | |
| C135 | | | CK73GB1H101J | CHIP C | 100PF | J | | |
| C136 | | | CE04LW1HR47M | ELECTRO | 0.47UF | 50WV | | |
| C137,138 | | | CE04LW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C139 | | | CK73GB1H101J | CHIP C | 100PF | J | | |
| C140 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C141 | | | CE04LW1H3R3M | ELECTRO | 3.3UF | 50WV | | |
| C142,143 | | | CE04LW1H470M | ELECTRO | 47UF | 50WV | | |
| C144,145 | | | CC73GCH1H270J | CHIP C | 27PF | J | | |
| C147 | | | CE04LW1H470M | ELECTRO | 47UF | 50WV | E3STNT | |
| C147 | | | CE04LW1H470M | ELECTRO | 47UF | 50WV | H | |
| C147 | | | CE04LW1H470M | ELECTRO | 47UF | 50WV | NESEE2 | |
| C148 | | | CE04LW1H4R7M | ELECTRO | 4.7UF | 50WV | E3NTST | |
| C148 | | | CE04LW1H4R7M | ELECTRO | 4.7UF | 50WV | H | |
| C148 | | | CE04LW1H4R7M | ELECTRO | 4.7UF | 50WV | NESEE2 | |
| C149 | | | CK73GB1H271K | CHIP C | 270PF | K | E3NTST | |
| C149 | | | CK73GB1H271K | CHIP C | 270PF | K | H | |
| C149 | | | CK73GB1H271K | CHIP C | 270PF | K | NESEE2 | |
| C150 | | | CK73GB1H561K | CHIP C | 560PF | K | E3NTST | |
| C150 | | | CK73GB1H561K | CHIP C | 560PF | K | H | |
| C150 | | | CK73GB1H561K | CHIP C | 560PF | K | NESEE2 | |
| C151 | | | CC73GCH1H330J | CHIP C | 33PF | J | E3NTST | |
| C151 | | | CC73GCH1H330J | CHIP C | 33PF | J | H | |
| C151 | | | CC73GCH1H330J | CHIP C | 33PF | J | NESEE2 | |
| C152 | | | CC73GCH1H390J | CHIP C | 39PF | J | E3NTST | |
| C152 | | | CC73GCH1H390J | CHIP C | 39PF | J | H | |

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|---|---|---|---|---|---|---|---|---|
| C152 | | | CC73GCH1H390J | CHIP C | 39PF | J | NESEE2 | |
| C157 | | | CE04BP1H4R7M | NP-ELEC | 4.7UF | 50WV | | |
| C158 | | | CK73GB1H104K | CHIP C | 0.10UF | K | | |
| C159 | | | CK73GB1H472K | CHIP C | 4700PF | K | | |
| C201-203 | | | CE04LW1H101M | ELECTRO | 100UF | 50WV | | |
| C204 | | | CK73GB1H471K | CHIP C | 470PF | K | | |
| C205-207 | | | CK73GB1H104K | CHIP C | 0.10UF | K | | |
| C208 | | | CK73GB1H392K | CHIP C | 3900PF | K | | |
| C209 | | | CC73GCH1H050C | CHIP C | 5.0PF | C | | |
| C210 | | | CK73GB1H471K | CHIP C | 470PF | K | | |
| C211 | | | CK73GB1H332K | CHIP C | 3300PF | K | | |
| C212 | | | CK73GB1H471K | CHIP C | 470PF | K | | |
| C213 | | | CC73GCH1H820J | CHIP C | 82PF | J | | |
| C214 | | | CK73GB1H104K | CHIP C | 0.10UF | K | | |
| C215 | | | CK73GB1H224K | CHIP C | 0.22UF | K | | |
| C216 | | | CK73GB1H393K | CHIP C | 0.039UF | K | | |
| C217 | | | CK73GB1H472K | CHIP C | 4700PF | K | | |
| C218 | | | CK73GB1H471K | CHIP C | 470PF | K | | |
| C219 | | | CK73GB1H221K | CHIP C | 220PF | K | | |
| C220 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| C221 | | | CK73GB1H101J | CHIP C | 100PF | J | | |
| C222 | | | CK73GB1H221K | CHIP C | 220PF | K | | |
| C223 | | | CK73GB1H223K | CHIP C | 0.022UF | K | | |
| C224 | | | CE04LW1H471M | ELECTRO | 470UF | 50WV | | |
| C225 | | | CK73GB1H332K | CHIP C | 3300PF | K | | |
| C227 | | | CK73GB1H223K | CHIP C | 0.022UF | K | | |
| C228 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| C229,230 | | | CK73GB1H223K | CHIP C | 0.022UF | K | | |
| C231 | | | CK73GB1H224K | CHIP C | 0.22UF | K | | |
| C232 | | | CK73GB1H122K | CHIP C | 1200PF | K | | |
| C233 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| C234 | | | CK73GB1H473K | CHIP C | 0.047UF | K | | |
| C235 | | | CK73GB1H334K | CHIP C | 0.33UF | K | | |
| C237,238 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| C241,242 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV | | |
| C243,244 | | | CK73GB1H221K | CHIP C | 220PF | K | | |
| C256 | | | CE04LW1E471M | ELECTRO | 470UF | 25WV | | |
| C257 | | | CE04LW1A221M | ELECTRO | 220UF | 10WV | | |
| C267,268 | | | CK73GB1H681K | CHIP C | 680PF | K | | |
| C270 | | | CK73GB1H473K | CHIP C | 0.047UF | K | | |
| C271,272 | | | CK73GB1H221K | CHIP C | 220PF | K | | |
| C301,302 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV | | |
| C303 | | | CK73GB1H221K | CHIP C | 220PF | K | | |
| C303,304 | | | CK73GB1H272K | CHIP C | 2700PF | K | | |
| C305-308 | | | CK73GB1H154K | CHIP C | 0.15UF | K | | |
| C309,310 | | | CK73GB1H221K | CHIP C | 220PF | K | | |
| C311 | | | CK73GB1H471K | CHIP C | 470PF | K | | |
| C312 | | | CE04LW1H470M | ELECTRO | 47UF | 50WV | | |
| C313 | | | CK73GB1H473K | CHIP C | 0.047UF | K | | |
| C313,314 | | | CE04LW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C328 | | | CE04LW1H101M | ELECTRO | 100UF | 50WV | | |
| C331,332 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV | | |
| C335,336 | | | CE04LW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C337,338 | | | CK73GB1H221K | CHIP C | 220PF | K | | |
| C401 | | | CK73GB1H101J | CHIP C | 100PF | J | | |

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|---|---|---|---|---|---|---|---|---|
| C402-405 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C406 | | | CK73GB1H101J | CHIP C | 100PF | J | | |
| C407,408 | | | CC73GCH1H180J | CHIP C | 18PF | J | | |
| C409-411 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C412,413 | | | CK73GB1H101J | CHIP C | 100PF | J | | |
| C414A,B | | | CK73GB1H105Z | CHIP C | 1.0UF | Z | | |
| C416 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C417 | | | CK73GB1H105Z | CHIP C | 1.0UF | Z | | |
| C418,419 | | | CE04LW1H101M | ELECTRO | 100UF | 50WV | | |
| C601,602 | | | CE04LW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C603,604 | | | CK73GB1H221K | CHIP C | 220PF | K | | |
| C605,606 | | | CE04LW1H470M | ELECTRO | 47UF | 50WV | | |
| C607-610 | | | CK45FB1H224Z | CERAMIC | 0.22UF | Z | | |
| C611,612 | | | CC73GCH1H470J | CHIP C | 47PF | J | | |
| C613-615 | | | CE04LW1E222M | ELECTRO | 2200UF | 25WV | | |
| C616 | | | CE04BP1H100M | NP-ELEC | 10UF | 50WV | | |
| C617,618 | | | CK45FB1H103K | CERAMIC | 0.010UF | K | | |
| C621,622 | | | CE04LW1J101M | ELECTRO | 100UF | 63WV | | |
| C625 | | | CE04LW1H101M | ELECTRO | 100UF | 50WV | | |
| C627 | | | CK45FB1H103K | CERAMIC | 0.010UF | K | | |
| C628 | | | CE04LW1E222M | ELECTRO | 2200UF | 25WV | | |
| C629 | | | CE04BP1E220M | NP-ELEC | 22UF | 25WV | | |
| C631 | | | CK73GB1H683K | CHIP C | 0.068UF | K | | |
| C632,633 | | | CK45FB1H103K | CERAMIC | 0.010UF | K | | |
| C635 | | | C91-1439-05 | FILM | 0.010UF | 250VAC | | |
| C637,638 | | | CE04LW1H101M | ELECTRO | 100UF | 50WV | | |
| C641,642 | | | CK73GB1H102K | CHIP C | 1000PF | K | | |
| C643,644 | | | CK73GB1H473K | CHIP C | 0.047UF | K | | |
| C645 | | | CK45FB1H103K | CERAMIC | 0.010UF | K | | |
| C646 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV | | |
| C701,702 | | | CK73GB1H271K | CHIP C | 270PF | K | | |
| C703,704 | | | CK73GB1H101J | CHIP C | 100PF | J | | |
| C705 | | | CK73GB1H223K | CHIP C | 0.022UF | K | | |
| C707,708 | | | CE04LW1H101M | ELECTRO | 100UF | 50WV | | |
| C709,710 | | | CK73GB1H273K | CHIP C | 0.027UF | K | | |
| C711,712 | | | CE04LW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C713,714 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV | | |
| C715,716 | | | CK73GB1H122K | CHIP C | 1200PF | K | | |
| C717,718 | | | CK45FB1H102K | CERAMIC | 1000PF | K | | |
| C721,722 | | | CK45FB1H221J | CERAMIC | 220PF | J | | |
| C723 | | | CK73GB1H393K | CHIP C | 0.039UF | K | | |
| C724 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV | | |
| C725 | | | CE04LW1H101M | ELECTRO | 100UF | 50WV | | |
| C727,728 | | | CE04LW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C729 | | | CQ92M1H682K | MYLAR | 6800PF | K | | |
| C730 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV | | |
| C731,732 | | | CK45FB1H221J | CERAMIC | 220PF | J | | |
| C733 | | | CK73GB1H822K | CHIP C | 8200PF | K | | |
| C734 | | | CK73GB1H103K | CHIP C | 0.010UF | K | | |
| C735 | | | CE04LW1H220M | ELECTRO | 22UF | 50WV | | |
| C736 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV | | |
| C737 | | | CK73GB1H822K | CHIP C | 8200PF | K | | |
| C741,742 | | | CE04LW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C745 | | | CE04LW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C801 | | | CK73GB1H105Z | CHIP C | 1.0UF | Z | | |

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6

| Ref. No | Address | New Parts | Parts No. | Description | | | Destination | Remarks |
|---|---|---|---|---|---|---|---|---|
| C802,803 | | | CK73GB1H221K | CHIP C | 220PF | K | | |
| C804 | | | CE04LW1H470M | ELECTRO | 47UF | 50WV | | |
| C805,806 | | | CE04LW1H010M | ELECTRO | 1.0UF | 50WV | | |
| TC101 | | | C05-0301-05 | TRIMMER 7 PF 6 014-10070-001 | | | | |
| CN201 | | | E40-4997-05 | 16P ZIP R/A CO 025-20016-305 | | | | |
| CN402 | | | E40-4895-05 | 8P FCC CONNECT 025-20008-206 | | | | |
| JK101 | | | E70-0112-08 | SPK. TERMINAL 046-10300-002 | | | | |
| JK301 | | | E63-1091-08 | RCA JACK RS-24 046-20200-008 | | | | |
| JK601 | | | E70-0113-08 | SPK TERMINAL P 046-10400-009 | | | | |
| JK602 | | | E11-0398-08 | STEREO JACK 3. 021-23507-100 | | | | |
| F601 | | | F05-2029-05 | 2A/250V FAST A 050-05020-210 | | | NESEH | |
| ⚠ F601 | | | F05-2029-05 | 2A/250V FAST A 050-05020-210 | | | NTST | |
| ⚠ F601 | | | F05-2029-05 | 2A/250V FAST A 050-05020-210 | | | SXE2E3 | |
| ⚠ F601 | | | F50-0062-05 | 0.8A/250V FAST 050-05020-082 | | | SK | |
| CF101,102 | | | L72-0536-05 | CERAMIC FILTER 028-10700-023 | | | E2E3 | |
| CF101,102 | | | L72-0536-05 | CERAMIC FILTER 028-10700-023 | | | NESEH | |
| CF101,102 | | | L72-0536-05 | CERAMIC FILTER 028-10700-023 | | | NTST | |
| CF101,102 | | | L72-0632-08 | CERAMIC FILTER 028-10700-028 | | | SK | |
| CF103 | | | L72-0633-08 | CERAMIC FILTER 028-00450-004 | | | | |
| L101 | | | L40-2291-17 | INDUCTOR 2.2 U 015-70022-007 | | | | |
| L102 | | | L33-1648-08 | INDUCTOR 10 UH 015-70100-007 | | | | |
| L201 | | | L33-1648-08 | INDUCTOR 10 UH 015-70100-007 | | | | |
| L701,702 | | | L33-1647-08 | INDUCTOR 10 MH 015-70103-006 | | | | |
| T101 | | | L31-0640-08 | AM ANT. 7MM OH 016-21032-104 | | | | |
| T102 | | | L32-1018-08 | OSC 7MM NO.036 016-20360-023 | | | | |
| T103 | | | L30-0977-08 | IFT 7MM RD157- 016-21198-101 | | | | |
| T104 | | ✱ | L30-0991-08 | FM IFT 7MM OH- 016-22372-102 | | | | |
| ⚠ T601 | | ✱ | L07-3245-08 | X'FORMER T66-0 018-03357-562 | | | SE | |
| ⚠ T601 | | ✱ | L07-3246-08 | X'FORMER T66-0 018-03357-572 | | | E2E3 | |
| ⚠ T601 | | ✱ | L07-3246-08 | X'FORMER T66-0 018-03357-572 | | | NESXH | |
| ⚠ T601 | | ✱ | L07-3246-08 | X'FORMER T66-0 018-03357-572 | | | NTST | |
| ⚠ T601 | | ✱ | L07-3247-08 | X'FORMER T66-0 018-03357-522 | | | SK | |
| ⚠ T602 | | ✱ | L07-3248-08 | X'FORMER T28-0 018-03352-560 | | | | |
| T701 | | ✱ | L32-1059-08 | BIAS TRAP. COI 016-00592-105 | | | | |
| X101 | | ✱ | L77-2405-08 | CRYSTAL: 7.2 M 052-07200-005 | | | | |
| X102 | | ✱ | L77-2406-08 | CRYSTAL: 4.332 052-04332-002 | | | E2E3 | |
| X102 | | ✱ | L77-2406-08 | CRYSTAL: 4.332 052-04332-002 | | | NESEH | |
| X102 | | ✱ | L77-2406-08 | CRYSTAL: 4.332 052-04332-002 | | | NTST | |
| X201 | | ✱ | L78-0759-08 | CERAMIC RESONA 052-16930-104 | | | | |
| X401 | | | L77-2264-08 | CRYSTAL : 32.7 052-32768-000 | | | | |
| X402 | | ✱ | L78-0760-08 | CERAMIC RESONA 052-08390-100 | | | | |
| X801 | | | L77-2266-08 | 4MC CERAMIC RE 052-04000-102 | | | | |
| R101 | | | RK73GB1J221J | CHIP R | 220 | J 1/16W | | |
| R102 | | | RK73GB1J681J | CHIP R | 680 | J 1/16W | | |
| R103 | | | RK73GB1J332J | CHIP R | 3.3K | J 1/16W | | |
| R104 | | | RK73GB1J100J | CHIP R | 10 | J 1/16W | | |
| R105,106 | | | RK73GB1J331J | CHIP R | 330 | J 1/16W | | |
| R107 | | | RK73GB1J101J | CHIP R | 100 | J 1/16W | | |
| R108 | | | RK73GB1J100J | CHIP R | 10 | J 1/16W | | |
| R109 | | | RK73GB1J000J | CHIP R | 0 | J 1/16W | | |
| R110 | | | RK73GB1J102J | CHIP R | 1.0K | J 1/16W | | |
| R111 | | | RK73GB1J473J | CHIP R | 47K | J 1/16W | | |
| R112 | | | RK73GB1J332J | CHIP R | 3.3K | J 1/16W | | |
| R113,114 | | | RK73GB1J223J | CHIP R | 22K | J 1/16W | | |

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| Ref. No | Address | New Parts | Parts No. | Description | | | | Destination | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| R115 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | | |
| R118 | | | RK73GB1J562J | CHIP R | 5.6K | J | 1/16W | | |
| R120 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R122 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R123 | | | RK73GB1J182J | CHIP R | 1.8K | J | 1/16W | | |
| R124,125 | | | RK73GB1J562J | CHIP R | 5.6K | J | 1/16W | | |
| R126 | | | RK73GB1J123J | CHIP R | 12K | J | 1/16W | | |
| R127 | | | RK73GB1J392J | CHIP R | 3.9K | J | 1/16W | | |
| R128,129 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R130 | | | RK73GB1J562J | CHIP R | 5.6K | J | 1/16W | | |
| R131 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R132 | | | RK73GB1J222J | CHIP R | 2.2K | J | 1/16W | | |
| R133 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R134 | | | RK73GB1J683J | CHIP R | 68K | J | 1/16W | | |
| R135 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R136 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R137-139 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R140 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | | |
| R141 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | E2E3 | |
| R141 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | NESEH | |
| R141 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | NTST | |
| R142 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | E2E3 | |
| R142 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | NESEH | |
| R142 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | NTST | |
| R143,144 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | E2E3 | |
| R143,144 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | NESEH | |
| R143,144 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | NTST | |
| R145 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R146 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | E2E3 | |
| R146 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | NTST | |
| R147 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R148 | | | RK73GB1J392J | CHIP R | 3.9K | J | 1/16W | | |
| R149 | | | RK73GB1J222J | CHIP R | 2.2K | J | 1/16W | | |
| R150 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | | |
| R152 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R153,154 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R160,161 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | E2E3 | |
| R160,161 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | NESEH | |
| R160,161 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | NTST | |
| R162 | | | RK73GB1J222J | CHIP R | 2.2K | J | 1/16W | E2E3 | |
| R162 | | | RK73GB1J222J | CHIP R | 2.2K | J | 1/16W | NESEH | |
| R162 | | | RK73GB1J222J | CHIP R | 2.2K | J | 1/16W | NTST | |
| R164 | | | RK73GB1J223J | CHIP R | 22K | J | 1/16W | E2E3 | |
| R164 | | | RK73GB1J223J | CHIP R | 22K | J | 1/16W | NESEH | |
| R164 | | | RK73GB1J223J | CHIP R | 22K | J | 1/16W | NTST | |
| R165 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | E2E3 | |
| R165 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | NESEH | |
| R165 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | NTST | |
| R166 | | | RK73GB1J272J | CHIP R | 2.7K | J | 1/16W | SKSX | |
| R166 | | | RK73GB1J682J | CHIP R | 6.8K | J | 1/16W | E2E3 | |
| R166 | | | RK73GB1J682J | CHIP R | 6.8K | J | 1/16W | NESEH | |
| R166 | | | RK73GB1J682J | CHIP R | 6.8K | J | 1/16W | NTST | |
| R167 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R168 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R201-204 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |

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|---|---|---|---|---|---|---|---|---|---|
| R205,206 | | | RK73GB1J272J | CHIP R | 2.7K | J | 1/16W | | |
| R207 | | | RK73GB1J333J | CHIP R | 33K | J | 1/16W | | |
| R208 | | | RK73GB1J393J | CHIP R | 39K | J | 1/16W | | |
| R209 | | | RK73GB1J4R7J | CHIP R | 4.7 | J | 1/16W | | |
| R210 | | | RK73GB1J433J | CHIP R | 43K | J | 1/16W | | |
| R211 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R212 | | | RK73GB1J334J | CHIP R | 330K | J | 1/16W | | |
| R213 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R214 | | | RK73GB1J220J | CHIP R | 22 | J | 1/16W | | |
| R215 | | | RK73GB1J393J | CHIP R | 39K | J | 1/16W | | |
| R217 | | | RK73GB1J334J | CHIP R | 330K | J | 1/16W | | |
| R218 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R220 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | | |
| R221 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R222 | | | RK73GB1J182J | CHIP R | 1.8K | J | 1/16W | | |
| R223 | | | RK73GB1J512J | CHIP R | 5.1K | J | 1/16W | | |
| R224 | | | RK73GB1J272J | CHIP R | 2.7K | J | 1/16W | | |
| R225 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | | |
| R226 | | | RK73GB1J113J | CHIP R | 11K | J | 1/16W | | |
| R234 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R238 | | | RK73GB1J154J | CHIP R | 150K | J | 1/16W | | |
| R239 | | | RK73GB1J563J | CHIP R | 56K | J | 1/16W | | |
| R240 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R241 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R242 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R243 | | | RK73GB1J274J | CHIP R | 270K | J | 1/16W | | |
| R244 | | | RK73GB1J183J | CHIP R | 18K | J | 1/16W | | |
| R245 | | | RK73GB1J124J | CHIP R | 120K | J | 1/16W | | |
| R247 | | | RK73GB1J682J | CHIP R | 6.8K | J | 1/16W | | |
| R248 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R249 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R250 | | | RK73GB1J563J | CHIP R | 56K | J | 1/16W | | |
| R251 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R252 | | | RK73GB1J333J | CHIP R | 33K | J | 1/16W | | |
| R253 | | | RK73GB1J105J | CHIP R | 1.0M | J | 1/16W | | |
| R254 | | | RK73GB1J331J | CHIP R | 330 | J | 1/16W | | |
| R255 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | | |
| R256 | | | RK73GB1J272J | CHIP R | 2.7K | J | 1/16W | | |
| R257 | | | RK73GB1J4R7J | CHIP R | 4.7 | J | 1/16W | | |
| R258 | | | RK73GB1J105J | CHIP R | 1.0M | J | 1/16W | | |
| R259 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R260 | | | RK73GB1J4R7J | CHIP R | 4.7 | J | 1/16W | | |
| R261 | | | RK73GB1J393J | CHIP R | 39K | J | 1/16W | | |
| R262 | | | RD14BB2H4R7J | RD | 4.7 | J | 1/2W | | |
| R269,270 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R274 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R301,302 | | | RK73GB1J362J | CHIP R | 3.6K | J | 1/16W | | |
| R322-324 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R333,334 | | | RK73GB1J333J | CHIP R | 33K | J | 1/16W | | |
| R335,336 | | | RK73GB1J223J | CHIP R | 22K | J | 1/16W | | |
| R401-405 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R406-409 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | | |
| R410 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R411 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | | |
| R412-415 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |

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|---|---|---|---|---|---|---|---|---|---|
| R416,417 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | | |
| R418 | | | RK73GB1J1R0J | CHIP R | 1 | J | 1/16W | | |
| R419 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R420 | | | RK73GB1J1R0J | CHIP R | 1 | J | 1/16W | | |
| R421 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R422 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R424 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R425 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R426,427 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R428,429 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R430 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R431 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R432 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R433 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R434 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R435,436 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R437 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R438 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R439 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R440-442 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R443 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R444 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R445 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R447 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R448 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R449 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R450,451 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R452 | | | RK73GB1J224J | CHIP R | 220K | J | 1/16W | E2E3 | |
| R452 | | | RK73GB1J224J | CHIP R | 220K | J | 1/16W | NESEH | |
| R452 | | | RK73GB1J224J | CHIP R | 220K | J | 1/16W | NTST | |
| R452 | | | RK73GB1J272J | CHIP R | 2.7K | J | 1/16W | SX | |
| R453 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R454 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R455 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R456-460 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R461 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R462-465 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R466-468 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R470 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R472 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R473 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R475 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R476 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R478,479 | | | RK73GB1J512J | CHIP R | 5.1K | J | 1/16W | | |
| R480 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R481 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R482,483 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R484,485 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R486 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R487,488 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R490 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R492,493 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R494 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R498,499 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R601,602 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |

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⑩

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|---|---|---|---|---|---|---|---|---|---|
| R603,604 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R605,606 | | | RK73GB1J222J | CHIP R | 2.2K | J | 1/16W | | |
| R607-610 | | | RK73GB1J223J | CHIP R | 22K | J | 1/16W | | |
| R613,614 | | | RK73GB1J391J | CHIP R | 390 | J | 1/16W | | |
| R618 | | | RK73GB1J223J | CHIP R | 22K | J | 1/16W | | |
| R619 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | | |
| R620 | | | RK73GB1J223J | CHIP R | 22K | J | 1/16W | | |
| R621 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R629 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R630 | | | RS14GB3A101J | FL-PROOF RS | 100 | J | 1W | | |
| R631 | | | R92-1844-05 | CARBON | 3.3M | J | 1/2W | SK | |
| R639 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R640 | | | RK73GB1J223J | CHIP R | 22K | J | 1/16W | | |
| R641,642 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R643 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | | |
| R644 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R645 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R647,648 | | | RK73GB1J271J | CHIP R | 270 | J | 1/16W | | |
| R650,651 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R653,654 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R655,656 | | | RK73GB1J683J | CHIP R | 68K | J | 1/16W | | |
| R657,658 | | | RS14GB3DR22J | FL-PROOF RS | 0.22 | J | 2W | | |
| R659 | | | RK73GB1J223J | CHIP R | 22K | J | 1/16W | | |
| R660,661 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R701 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R703,704 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R705,706 | | | RK73GB1J220J | CHIP R | 22 | J | 1/16W | | |
| R707,708 | | | RK73GB1J472J | CHIP R | 4.7K | J | 1/16W | | |
| R709,710 | | | RK73GB1J153J | CHIP R | 15K | J | 1/16W | | |
| R711-713 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R719,720 | | | RK73GB1J183J | CHIP R | 18K | J | 1/16W | | |
| R722 | | | RK73GB1J475J | CHIP R | 4.7M | J | 1/16W | | |
| R723,724 | | | RK73GB1J394J | CHIP R | 390K | J | 1/16W | | |
| R726 | | | RK73GB1J562J | CHIP R | 5.6K | J | 1/16W | | |
| R728 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R730 | | | RK73GB1J562J | CHIP R | 5.6K | J | 1/16W | | |
| R731,732 | | | RK73GB1J222J | CHIP R | 2.2K | J | 1/16W | | |
| R733,734 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R735,736 | | | RK73GB1J224J | CHIP R | 220K | J | 1/16W | | |
| R744 | | | RK73GB1J152J | CHIP R | 1.5K | J | 1/16W | | |
| R745 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R801,802 | | | RK73GB1J271J | CHIP R | 270 | J | 1/16W | | |
| R803,804 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R805 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | | |
| R806 | | | RK73GB1J112J | CHIP R | 1.1K | J | 1/16W | | |
| R807 | | | RK73GB1J122J | CHIP R | 1.2K | J | 1/16W | | |
| R808 | | | RK73GB1J112J | CHIP R | 1.1K | J | 1/16W | | |
| R809,810 | | | RK73GB1J222J | CHIP R | 2.2K | J | 1/16W | | |
| R811 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R813 | | | RK73GB1J112J | CHIP R | 1.1K | J | 1/16W | | |
| R814 | | | RK73GB1J122J | CHIP R | 1.2K | J | 1/16W | | |
| R815 | | | RK73GB1J112J | CHIP R | 1.1K | J | 1/16W | | |
| R816,817 | | | RK73GB1J222J | CHIP R | 2.2K | J | 1/16W | | |
| R818 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R819 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |

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⑪

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|---|---|---|---|---|---|---|
| R820 | | | RK73GB1J473J | CHIP R 47K J 1/16W | | |
| R821 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R822 | | | RK73GB1J473J | CHIP R 47K J 1/16W | | |
| R823 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R824 | | | RK73GB1J473J | CHIP R 47K J 1/16W | | |
| R825 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R826 | | | RK73GB1J473J | CHIP R 47K J 1/16W | | |
| R829,830 | | | RK73GB1J472J | CHIP R 4.7K J 1/16W | | |
| R851,852 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| VR101 | | | R12-0037-05 | SEMI-FIXED RES 012-19103-100 | | |
| VR801 | | ✱ | T99-0676-08 | ROTARY ENCODER 020-81212-151 | | |
| W101-103 | | | RK73GB1J000J | CHIP R 0 J 1/16W | | |
| W201-205 | | | RK73GB1J000J | CHIP R 0 J 1/16W | | |
| W301,302 | | | RK73GB1J000J | CHIP R 0 J 1/16W | | |
| W404,405 | | | RK73GB1J000J | CHIP R 0 J 1/16W | | |
| W701 | | | RK73GB1J000J | CHIP R 0 J 1/16W | | |
| RL601 | | | S74-0093-08 | RELAY SDT-S-10 065-00105-001 | | |
| SW701 | | ✱ | S62-0116-08 | SLIDE SWITCH S 020-11208-104 | | |
| SW801-807 | | | S70-0096-08 | TACT SWITCH EV 020-31100-164 | | |
| SW809 | | | S70-0096-08 | TACT SWITCH EV 020-31100-164 | | |
| SW813-815 | | | S70-0096-08 | TACT SWITCH EV 020-31100-164 | | |
| BD601,602 | | | KBL402 | BRIDGE RECTIFIER | | |
| D101,102 | | | 1SS133 | SWITCHING DIODE | | |
| D103 | | | MTZJ5.6B | ZENER DIODE | | |
| D104 | | | 1SS133 | SWITCHING DIODE | | |
| D201 | | | 1SS355 | SW. DIODES | | |
| D301,302 | | | 1SS355 | SW. DIODES | | |
| D401,402 | | | 1SS133 | SWITCHING DIODE | | |
| D404 | | | 1SS133 | SWITCHING DIODE | | |
| D406 | | | 1SS133 | SWITCHING DIODE | | |
| D408,409 | | | 1SS133 | SWITCHING DIODE | | |
| D410,411 | | | 1SS355 | SW. DIODES | | |
| D412 | | | MTZJ2.7B | ZENER DIODE | | |
| D601-604 | | | 1SR139-400 | SWITCHING DIODE | | |
| D605 | | | MTZJ5.6B | ZENER DIODE | | |
| D606 | | | MTZJ6.2B | ZENER DIODE | | |
| D607 | | | MTZJ13B | ZENER DIODE | | |
| D608 | | | MTZJ16(B) | ZENER DIODE | | |
| D609 | | | 1SR139-400 | SWITCHING DIODE | | |
| D612 | | | MTZJ6.2B | ZENER DIODE | | |
| D613 | | | 1SR139-400 | SWITCHING DIODE | | |
| D615-623 | | | 1SS133 | SWITCHING DIODE | | |
| D627,628 | | | 1SS133 | SWITCHING DIODE | | |
| D629 | | | MTZJ5.1B | ZENER DIODE | | |
| D801 | | ✱ | B30-2558-08 | BI-COLOR LED 019-10000-001 | | |
| FL801 | | ✱ | B30-2647-08 | FLUORESCENT 049-14063-001 | | |
| IC101 | | ✱ | LA1844M | IC LA1844M | | |
| IC102 | | ✱ | LC72131MD-TFB | IC LC72131MD-T | | |
| IC103 | | | BU1923F | IC(RDS DEMODULATOR) | NESE | |
| IC201 | | | AN8399SA-E1 | IC(3BEAM DIGITAL SERVO HEAD AM | | |
| IC202 | | | MN6627482WB | IC(SIGNAL PROCESSING IC FOR CD | | |
| IC203 | | | AN4801SB-E1 | IC(CD/MD DRIVER) | | |
| IC301 | | | LC75342M | IC LC75342M | | |
| IC401 | | | MN101C51FGC | IC MN101C51F | | |
| IC402 | | ✱ | BD4740G | IC BD4740G | | |

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|---|---|---|---|---|---|---|
| IC404 | | | BR24C02F-W | IC(E2PROM)F-W | | |
| IC601,602 | | ✱ | TDA2030A | IC TDA2030A 002-02030-070 | | |
| IC601,602 | | | TDA2040V | IC(20W POWER AMP) | | |
| IC603 | | ✱ | BA17809T | IC BA17809T | | |
| IC604 | | | BA17805T | IC(VOLTAGE REGULATOR/ +5V) | | |
| IC605 | | | TA78057S | IC(VOLTAGE REGULATOR/+5.75V) | | |
| IC701 | | ✱ | AN7317 | IC AN7317 | | |
| IC702 | | | BA3126N | IC(HEAD SW) | | |
| IC801 | | | MN12510F | IC MN12510F | | |
| IC802 | | ✱ | W02-2981-08 | INFRARED REMOT 061-01271-001 | | |
| Q101 | | | 2SC930E | TRANSISTOR | | |
| Q102 | | | 2SA1037K | CHIP TRANSISTOR | | |
| Q103 | | | 2SC2412K | CHIP TRANSISTOR | | |
| Q104 | | | DTC124EUA | CHIP TRANSISTOR | | |
| Q105 | | | 2SC2412K | CHIP TRANSISTOR | E2E3 | |
| Q105 | | | 2SC2412K | CHIP TRANSISTOR | NESEH | |
| Q105 | | | 2SC2412K | CHIP TRANSISTOR | NTST | |
| Q106 | | | 2SA1037K | CHIP TRANSISTOR | E2E3 | |
| Q106 | | | 2SA1037K | CHIP TRANSISTOR | NESEH | |
| Q106 | | | 2SA1037K | CHIP TRANSISTOR | NTST | |
| Q201 | | | 2SA1037K | CHIP TRANSISTOR | | |
| Q205 | | | DTA124EUA | CHIP TRANSISTOR | | |
| Q401 | | | 2SC2412K | CHIP TRANSISTOR | | |
| Q402 | | | 2SA1037K | CHIP TRANSISTOR | | |
| Q403 | | | 2SB1205S | TRANSISTOR | | |
| Q404 | | | 2SA1036K | CHIP TRANSISTOR | | |
| Q405,406 | | | DTC124EUA | CHIP TRANSISTOR | | |
| Q601,602 | | | 2SD2114K | CHIP TRANSISTOR | | |
| Q603 | | | 2SD2061E | TRANSISTOR | | |
| Q604 | | | 2SA1036K | CHIP TRANSISTOR | | |
| Q605 | | | 2SA1037K | CHIP TRANSISTOR | | |
| Q606 | | | 2SA1036K | CHIP TRANSISTOR | | |
| Q607 | | | DTC124EUA | CHIP TRANSISTOR | | |
| Q608 | | | 2SC2412K | CHIP TRANSISTOR | | |
| Q609 | | | 2SA1036K | CHIP TRANSISTOR | | |
| Q612 | | | DTC124EUA | CHIP TRANSISTOR | | |
| Q613 | | | DTA124EUA | CHIP TRANSISTOR | | |
| Q621,622 | | | 2SC2412K | CHIP TRANSISTOR | | |
| Q623 | | | 2SA1037K | CHIP TRANSISTOR | | |
| Q703 | | | 2SC2412K | CHIP TRANSISTOR | | |
| Q704 | | | 2SA1037K | CHIP TRANSISTOR | | |
| Q705-707 | | | 2SC2412K | CHIP TRANSISTOR | | |
| Q708 | | | 2SA1036K | CHIP TRANSISTOR | | |
| Q709 | | | DTC124EUA | CHIP TRANSISTOR | | |
| Q801,802 | | | 2SC2412K | CHIP TRANSISTOR | | |
| Q803-806 | | | 2SA1037K | CHIP TRANSISTOR | | |
| VC101 | | | SVC342L | TUNING DIODE | | |
| U101 | | ✱ | W02-2982-08 | FM AUDIO TUNER 061-16104-001 | SKSX | |
| U101 | | ✱ | W02-2983-08 | FM AUDIO TUNER 061-17104-001 | E2E3 | |
| U101 | | ✱ | W02-2983-08 | FM AUDIO TUNER 061-17104-001 | NESEH | |

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# RXD-M35

## PARTS LIST

***HOW TO READ THE PARTS LIST***

***ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS***

| MODEL | ABB. | Australia | Canada | China | England | Europe | Germany | Korea | Malaysia |
|---|---|---|---|---|---|---|---|---|---|
| HM335-N | | - | - | - | - | - | - | - | - |
| HM335-S | | SX | - | - | - | - | - | - | - |
| RXD-M35E-N | | - | - | - | - | E3 | - | - | - |
| RXD-M35E-S | | - | - | - | - | E2 | - | - | - |
| RXD-M35-N | | - | - | - | NT | NE | - | H | - |
| RXD-M35-S | | - | | - | ST | SE | - | - | - |

| MODEL | ABB. | Mexico | PX/AAFES | Russia | Scandinavia | Shanghai | USA | Other area | |
|---|---|---|---|---|---|---|---|---|---|
| HM335-N | | - | - | - | - | - | - | - | |
| HM335-S | | - | - | - | - | - | SK | - | |
| RXD-M35E-N | | - | - | - | - | - | - | - | |
| RXD-M35E-S | | - | - | - | - | - | - | - | |
| RXD-M35-N | | - | - | - | - | - | - | - | |
| RXD-M35-S | | - | - | - | - | - | - | - | |

# RXD-M35

## SPECIFICATIONS

### *Main unit*

#### *[Amplifier section]*

**(For U.S.A. and Canada)**

Rated output power during STEREO operation (FTC)

13 watts per channel minimum RMS, both channels driven, at 6 Ω from 90 Hz to 15 kHz with no more than 10 % total harmonic distortion.

**(For U.K. and Europe)**

Effective output power during STEREO operation
(1 kHz, 10% T.H.D., at 6 Ω) ..... 15 W + 15 W

Rated output power during STEREO operation
(1 kHz, 0.7% T.H.D., at 6 Ω) ..... 11 W + 11 W

**(For other countries)**

Rated output power during STEREO operation
(1 kHz, 10% T.H.D., at 6 Ω) ..... 15 W + 15 W

#### *[Tuner section]*

**FM tuner section**

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

**MW (AM) tuner section**

**(For U.S.A. and Canada)**

Tuning frequency range ..... 530 kHz ~ 1,700 kHz

**(For U.K. and Europe)**

Tuning frequency range ..... 531 kHz ~ 1,602 kHz

**(For Australia)**

Tuning frequency range ..... 531 kHz ~ 1,602 kHz

**(For other countries)**

Tuning frequency range
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz

#### *[CD player section]*

Laser ..... Semiconductor laser
Over sampling ..... 8 fs (352.8 Hz)
Laser wave length ..... 760 - 800 nm
Laser power class ..... Class 3A (IEC)
D/A Conversion ..... 1 Bit

#### *[Cassette deck section]*

Track ..... 4-track, 2-channel stereo
Recording system ..... AC bias system
(Frequency: 105 kHz)
Heads
Playback/ recording head ..... 1
Erasing head ..... 1
Wow and flutter ..... 0.2 % (W.R.M.S.)
Fast winding time ..... Approx. 100 seconds
(C-60 tape)

#### *[General]*

Power consumption ..... 45 W
Dimensions ..... W : 150 mm (5-7/8")
H : 223 mm (8-3/4")
D : 265 mm (10-7/16")
Weight (net) ..... 3.75 kg (8.3 lb)

### *Speakers (LS-M35)*

Enclosure ..... Bass-reflex type
Speaker configuration
Woofer ..... 100 mm, cone type
Tweeter ..... 20 mm, piezo type
Impedance ..... 6 Ω
Maximum input power ..... 20 W
Dimensions ..... W : 130 mm (5-1/8")
H : 220 mm (8-11/16")
D : 214 mm (8-7/16")
Weight (net) ..... 1.65 kg (3.64 lb) (1 piece)

Notes

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

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**Note:**

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.


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